インヒビターやアゴニスト、モジュレーターを幅広く供給

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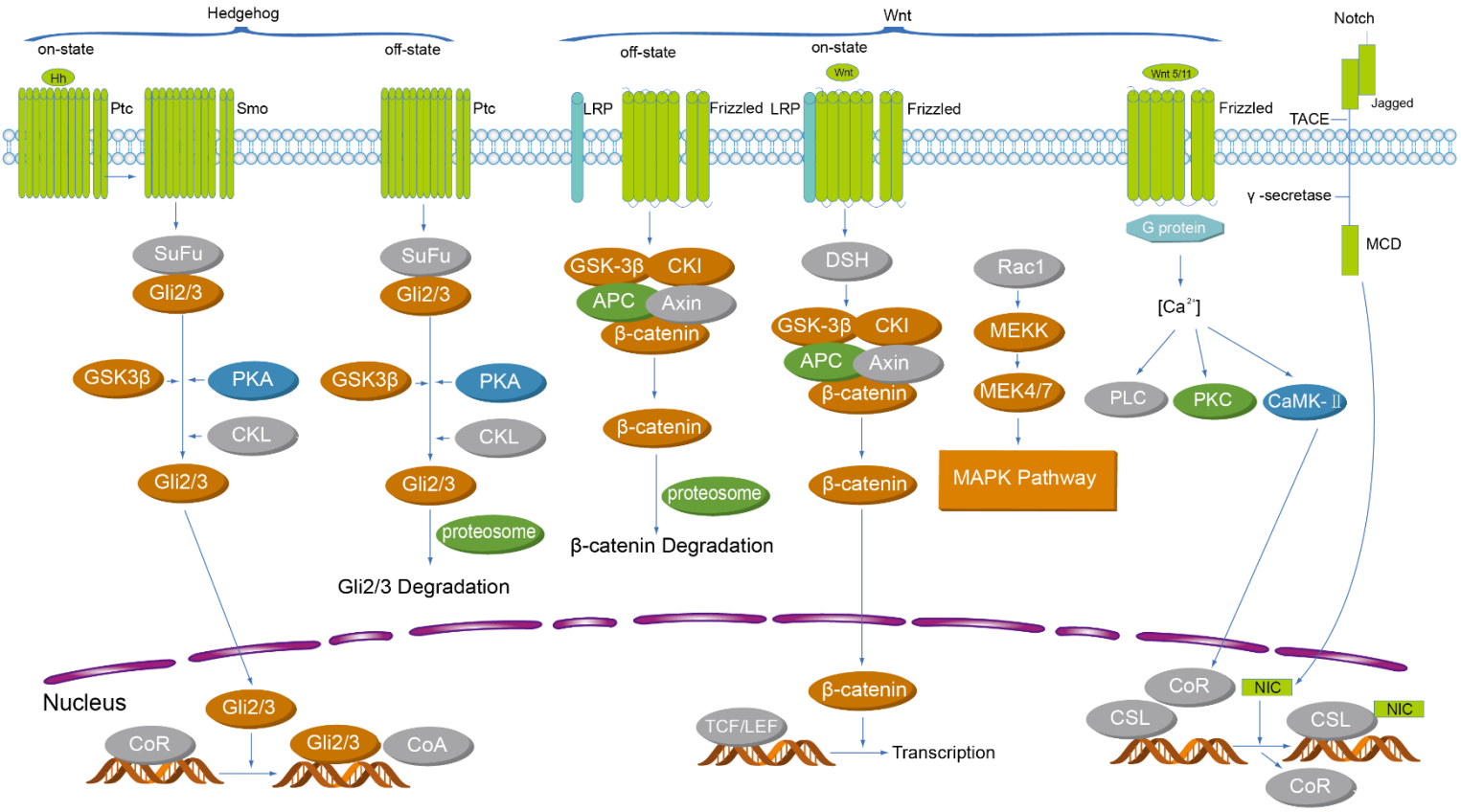
幹細胞/Wntシグナル 関連化合物



●幹細胞、再生療法、腫瘍幹細胞に関するメカニズム研究に有用。

●幹細胞の機能を調節するシグナル伝達経路に
関連する小分子を提供。

●Notch、Wnt、Hedgehog などのシグナル経路をターゲット。

●高純度を保証するためにNMRおよびHPLCにより分析。

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幹細胞/Wntシグナル 関連化合物
～Stem Cell/Wnt～

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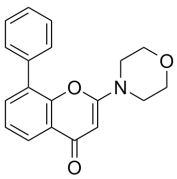
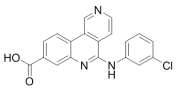
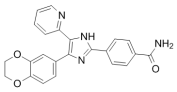


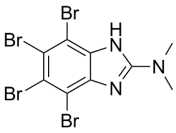
HY-10108
LY294002
LY294002 is a broad-spectrum inhibitor of PI3K, with IC50 of 0.5/0.57/0.97 μM for PI3Kα/δ/β, respectively, also potently inhibits CK2 with IC50 of 98 nM.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 154447-36-6)



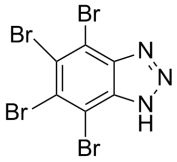
HY-50855
CX-4945
CX-4945 is an orally bioavailable, highly selective and potent CK2 inhibitor, with IC50 values of 1 nM against CK2α and CK2α'.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 1009820-21-6)



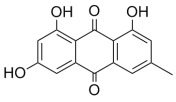
HY-10324
D4476
D4476 is a potent, selective and cell-permeable inhibitor of casein kinase 1(CK1) with an IC50 value of 0.3 μM in vitro.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 301836-43-1)



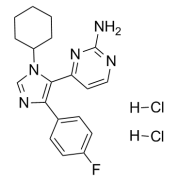
HY-15535
DMAT
DMAT is a potent and specific CK2 inhibitor with an IC50 value of 130 nM.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 749234-11-5)



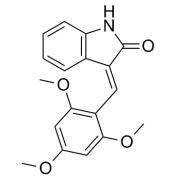
HY-14394
TBB
TBB is a selective inhibitor for the protein kinase CK2 with IC50 of 1.6 μM.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 17374-26-4)



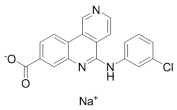
HY-14393
Emodin
Emodin is a broad-spectrum anticancer agent.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 518-82-1)



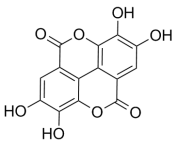
HY-15490
PF-670462
PF-670462 is a potent (IC50 = 7.7 ± 2.2 nM) and selective (>30-fold with respect to 42 additional kinases) inhibitor of CK1ε in isolated enzyme preparations.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 950912-80-8)



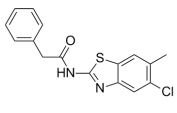
HY-12774
IC261
IC261 is a novel inhibitor of CK1, triggers the mitotic checkpoint control. The IC50 of IC261 for CK1 was 16 μM and for Cdk5 is 4.5 mM.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 186611-52-9)



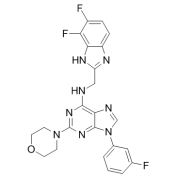
HY-50855B
CX-4945 sodium salt
CX-4945 (Silmitasertib) sodium salt is a potent and selective ATP-competitive small molecule protein kinase CK2 inhibitor with a Ki and an IC50 of 0.38 and 1 nM for recombinant human CK2α, respectively.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 1309357-15-0)



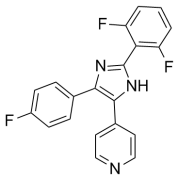
HY-B0183
Ellagic acid
Ellagic Acid is a cell permeable and strong casein kinase 2 (CK2) inhibitor (Ki = 20 nM) which acts as a potent antioxidant and anti-mutagenic.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 476-66-4)



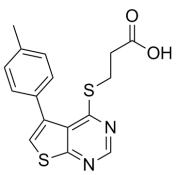
HY-15704
LH846
LH846 is a selective inhibitor of CK1δ (IC50 values are 290 nM, 1.3 uM and 2.5 uM for CK1δ, ε and α); displays no inhibitory activity at CK2.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 639052-78-1)



HY-100011
SR-3029
SR 3029 is a potent and highly specific CK1δ/CK1ε inhibitor with the IC50 of 97 nM.
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 1454585-06-8)



HY-100114
TA-01
TA-01 potently inhibits CK1ε, CK1δ,and p38α (IC50values are 6.4, 6.8, and 6.7 nM respectively).
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 1784751-18-3)



HY-15479
TTP 22
TTP 22 is a high affinity, ATP-competitive casein kinase 2 (CK2) inhibitor with IC50/Ki of 0.1 uM/40 nM; shows selectivity for CK2 over JNK3, ROCK1, and MET(IC50> 10 uM).
Target: Casein Kinase
Effect: Inhibitor
(CAS No. : 329907-28-0)

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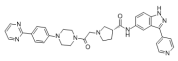
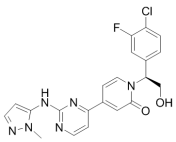
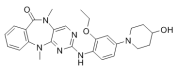


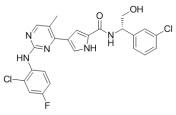
HY-50846
SCH772984
SCH772984 potently inhibits ERK1 and ERK2 activity with IC50 values of 4 and 1 nM, respectively.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 942183-80-4)



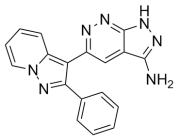
HY-15947
GDC-0994
GDC-0994 is an orally bioavailable inhibitor selective for ERK kinase activity with IC50 of 6.1 nM and 3.1 nM for ERK1 and ERK2, respectively.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 1453848-26-4)



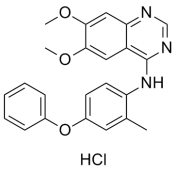
HY-14443
XMD8-92
XMD8-92 is a highly selective ERK5/BMK1 inhibitor with dissociation constant (Kd) value of 80 nM.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 1234480-50-2)



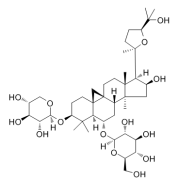
HY-14178
VX-11e
VX-11e is a potent, selective, and orally bioavailable inhibitor of ERK with Ki < 2 nM.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 896720-20-0)



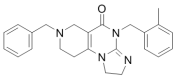
HY-12275
FR 180204
FR 180204 is an ATP-competitive, selective ERK inhibitor with Ki of 0.31 μM and 0.14 μM for ERK1 And ERK2, respectively.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 865362-74-9)



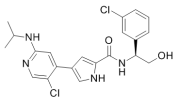
HY-100627A
APS-2-79 hydrochloride
APS 2-79 hydrochloride is an antagonist of MEK phosphorylation by RAF through direct binding of the KSR active site with IC50 values of 120±23 and 418 ±40 nM for KSR2 and MEK1, respectively.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Antagonist**
(CAS No. : 2002381-31-7)



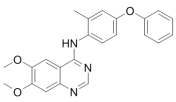
HY-N0431
Astragaloside IV
Astragaloside IV, an active component isolated from Astragalus membranaceus, suppresses the activation of ERK1/2 and JNK, and downregulates matrix metalloproteases (MMP)-2, (MMP)-9 in MDA-MB -231 breast cancer cells.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 84687-43-4)



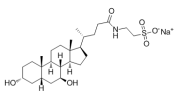
HY-15615A
TIC10
TIC10 is a potent, orally active, and stable TRAIL inducer, also inhibits Akt and ERK activity.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 1616632-77-9)



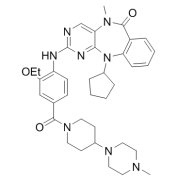
HY-15816
VRT752271
VRT752271 is a pyrrole inhibitors of ERK protein kinase.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 869886-67-9)



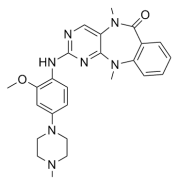
HY-100627
APS-2-79
APS-2-79 is an antagonist of MEK phosphorylation by RAF through direct binding of the KSR active site.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Antagonist**
(CAS No. : 2002381-25-9)



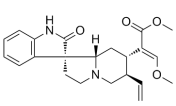
HY-19696A
Tauroursodeoxycholate Sodium
Tauroursodeoxycholate (TUDCA) inhibits neointimal hyperplasia by reducing proliferation and inducing apoptosis of smooth muscle cells by suppression of ERK via PKCα-mediated MKP-1 induction.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 35807-85-3)



HY-15665
XMD17-109
XMD17-109 is a novel, specific ERK-5 inhibitor, which inhibits the ERK5-mediated AP1 transcriptional activity at 30 μM, and has an EC50 of 4.2 μM.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 1435488-37-1)



HY-14403
ERK5-IN-1
ERK5-IN-1 exhibits potent inhibition of ERK5 with cellular EC50 values of 0.19 μM and enzymatic IC50 values of 0.087 μM and of LRRK2[G2019S] with enzymatic IC50 values of 0.026 μM.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 1234479-76-5)



HY-N0590
Corynoxeine
Corynoxeine is a potent ERK1/2 inhibitor of key PDGF-BB-induced VSMC proliferation; a useful and prospective compound in the prevention and treatment for vascular diseases.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 630-94-4)

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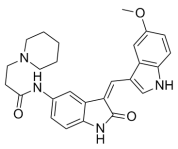
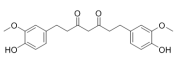
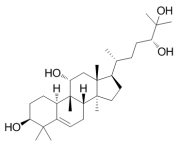


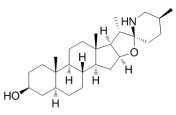
HY-18932
DEL-22379
DEL-22379 is an ERK dimerization inhibitor with IC50 of 0.5 μM.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 181223-80-3)



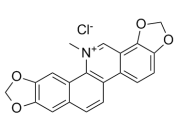
HY-N0893
Tetrahydrocurcumin
Tetrahydrocurcumin is one of the major metabolites of Curcumin; apoptosis inducer and has been demonstrated to be an antioxidant.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 36062-04-1)



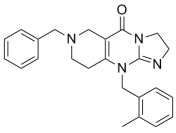
HY-N2312
Mogrol
Mogrol is a biometabolite of mogrosides, and acts via inhibition of the ERK1/2 and STAT3 pathways, or reducing CREB activation and activating AMPK signaling.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 88930-15-8)



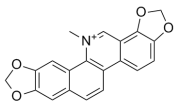
HY-N2149
Tomatidine
Tomatidine inhibits the phosphorylation of ERK, Akt, and the nuclear content of NF-κB.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 77-59-8)



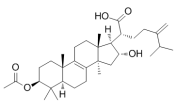
HY-N0052A
Sanguinarine chloride
Sanguinarine (chloride) is natural product.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Activator**
(CAS No. : 5578-73-4)



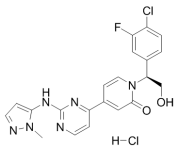
HY-15615
TIC10 isomer
TIC10 isomer(ONC201 isomer) is an isomer of TIC10; TIC10 is a potent, orally active, and stable small molecule that transcriptionally induces TRAIL in a p53-independent manner and crosses the blood-brain barrier.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 41276-02-2)



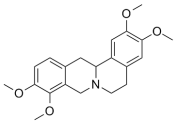
HY-N0052
Sanguinarine
Sanguinarine(Pseudochelerythrine) is a benzophenanthridine alkaloid which has anti-microbial, anti-oxidant and anti-inflammatory properties; specific inhibitor of Rac1b.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Activator**
(CAS No. : 2447-54-3)



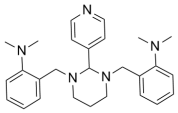
HY-N0371
Pachymic acid
Pachymic acid is a lanostrane-type triterpenoid, which possesses anti-emetic, anti-inflammatory, and anti-cancer properties.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 29070-92-6)



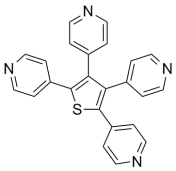
HY-15947A
GDC-0994 hydrochloride
GDC-0994 hydrochloride is an orally bioavailable inhibitor selective for ERK kinase activity with IC50 of 6.1 nM and 3.1 nM for ERK1 and ERK2, respectively.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 2070009-58-2)



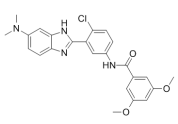
HY-N0300
Tetrahydropalmatine
Tetrahydropalmatine, an active component isolated from corydalis (a Chinese herbal medicine), possesses analgesic effects.
Target: **ERKs (Extracellular-signal-regulated kinases)**
Effect: **Inhibitor**
(CAS No. : 2934-97-6)



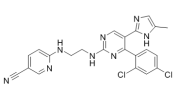
HY-13901
GANT 61
GANT 61 is an inhibitor of Gli1 and Gli2, used for cancer research.
Target: **Gli**
Effect: **Inhibitor**
(CAS No. : 500579-04-4)



HY-13282
GANT 58
GANT 58 is a potent Gli antagonist that inhibits GLI1-induced transcription with IC50 of 5 μM.
Target: **Gli**
Effect: **Antagonist**
(CAS No. : 64048-12-0)



HY-15412
HhAntag
HhAntag is a small molecule inhibitor of GLI1-mediated transcription, an essential down-stream element of the Hedgehog (Hh) pathway; antitumor agent.
Target: **Gli**
Effect: **Inhibitor**
(CAS No. : 496794-70-8)



HY-10182
CHIR-99021
CHIR-99021 is a GSK-3α/β inhibitor with IC50 of 10 nM/6.7 nM; > 500-fold selectivity for GSK-3 versus its closest homologs CDC2 and ERK2, as well as other protein kinases.
Target: **GSK-3**
Effect: **Inhibitor**
(CAS No. : 252917-06-9)

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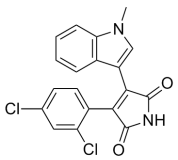
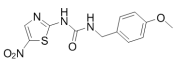
～Stem Cell/Wnt～

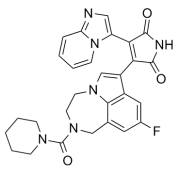
MCE MedChem Express



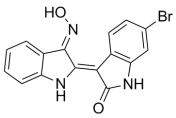
HY-12012
SB 216763
SB 216763 is potent and selective glycogen synthase kinase-3 (GSK-3) inhibitor, with IC50 value of 34 nM.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 280744-09-4)



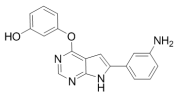
HY-10512
AR-A014418
AR-A014418 is a selective and effective GSK3β inhibitor with an IC50 value of 104 +/- 27 nM; no significant inhibition on 26 other kinases.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 487021-52-3)



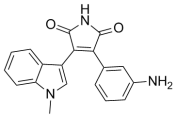
HY-16294
LY2090314
LY2090314 is a potent inhibitor of glycogen synthase kinase-3 (GSK-3) with IC50 values of 1.5 nM and 0.9 nM for GSK-3α and GSK-3β, respectively.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 603288-22-8)



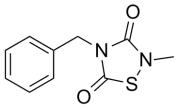
HY-10580
BIO
BIO is a potent and selective inhibitor of GSK-3 and CDK1-cyclinB complex with IC50s of 5 nM/320 nM/83 nM for GSK-3α β /CDK1/CDK5, respectively.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 667463-62-9)



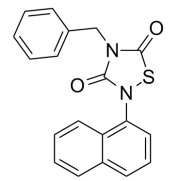
HY-10590
TWS119
TWS119 is an inhibitor of glycogen synthase kinase -3β (IC50 = 30 nM).
Target: GSK-3
Effect: Inhibitor
(CAS No. : 601514-19-6)



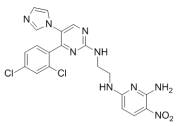
HY-100207
CP21R7
CP21R7 is a potent and selective GSK-3β inhibitor.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 125314-13-8)



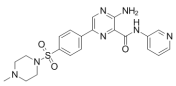
HY-11012
TDZD-8
TDZD-8(NP 01139) is a selective inhibitor of GSK-3, a thiadiazolidinone derivative, non-ATP competitive inhibitor of GSK-3β (IC50 = 2 μM); does not inhibit Cdk-1/cyclin B, CK-II, PKA or PKC at >100 μM.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 327036-89-5)



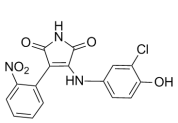
HY-14872
Tideglusib
Tideglusib is an irreversible GSK-3 inhibitor with IC50 of 5 nM and 60 nM for GSK-3β WT (1 h preincubation) and GSK-3β C199A (1 h preincubation), respectively.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 865854-05-3)



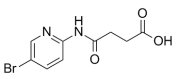
HY-13076
CHIR-98014
CHIR-98014 is a selective GSK3 inhibitor with IC50s of 0.65 nM and 0.58 nM for GSK-3α and GSK-3β; potentiate insulin activation of glucose transport and utilization in vitro and in vivo.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 252935-94-7)



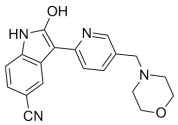
HY-15761
AZD2858
AZD2858 is a selective GSK-3 inhibitor with an IC50 of 68 nM, inhibits tau phosphorylation at the S396 site, activates Wnt signaling pathway.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 486424-20-8)



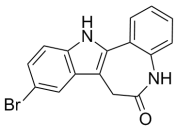
HY-15438
SB 415286
SB 415286 is a potent and selective cell-permeable, ATP-competitive inhibitor of GSK3α with an IC50 value of 78 nM (similar potency for GSK3β) and a Ki value of 31 nM.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 264218-23-7)



HY-12524
Bikinin
Bikinin(Abrasin) is a potent inhibitor of plant GSK-3/Shaggy-like kinase; activates BR signaling downstream of the BR receptor.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 188011-69-0)



HY-13862
AZD1080
AZD1080 is a potent and selective GSK3 inhibitor.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 612487-72-6)



HY-12302
Kenpaullone
Kenpaullone is an ATP-competitive inhibitor of several CDKs as well as GSK-3β, with an IC50 value of 0.23 μM for GSK-3β and 0.4, 0.68, 0.85, and 0.47 μM for CDK1/cyclin B, CDK2/cyclin A, CDK5/p25, and lymphocyte kinase., respectively.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 142273-20-9)

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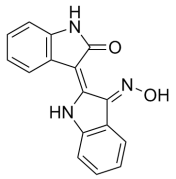
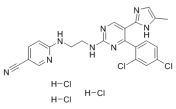
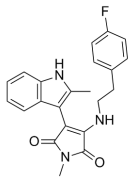


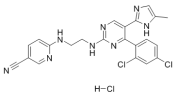
HY-19807
Indirubin-3'-monoxime
Indirubin-3'-monoxime is a powerful inhibitor of GSK-3β with IC50 of 22nM, also inhibits CDK1/5 (IC50 = 180/100 nM).
Target: GSK-3
Effect: Inhibitor
(CAS No. : 160807-49-8)



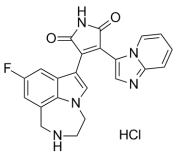
HY-10182B
CHIR-99021 trihydrochloride
CHIR-99021 trihydrochloride is a GSK-3α/β inhibitor with IC50 of 10 nM/6.7 nM; > 500-fold selectivity for GSK-3 versus its closest homologs CDC2 and ERK2, as well as other protein kinases.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 1782235-14-6)



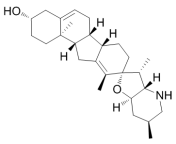
HY-12292
IM-12
IM-12 is a potent GSK-3β inhibitor with IC50 of 53 nM; shows a significant activity in several biological tests which was comparable or even outplayed the effects of the known SB-216763.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 1129669-05-1)



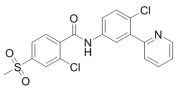
HY-10182A
CHIR-99021 monohydrochloride
CHIR-99021 monohydrochloride is a GSK-3α/β inhibitor with IC50 of 10 nM/6.7 nM; > 500-fold selectivity for GSK-3 versus its closest homologs CDC2 and ERK2, as well as other protein kinases.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 1797989-42-4)



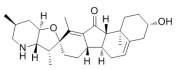
HY-13973A
GSK-3 inhibitor 1
GSK-3 inhibitor 1 is a potent GSK-3 inhibitor.
Target: GSK-3
Effect: Inhibitor
(CAS No. : 603272-51-1)



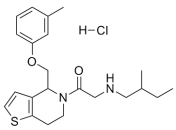
HY-17024
Cyclopamine
Cyclopamine is a Hedgehog (Hh) pathway antagonist with IC50 of 46 nM in the Hh cell assay.
Target: Hedgehog
Effect: Antagonist
(CAS No. : 4449-51-8)



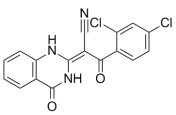
HY-10440
Vismodegib
Vismodegib is an orally active hedgehog pathway inhibitor with an IC50 of 3 nM and also inhibits P-gp, ABCG2 with IC50 values of 3.0 μM and 1.4 μM, respectively.
Target: Hedgehog
Effect: Inhibitor
(CAS No. : 879085-55-9)



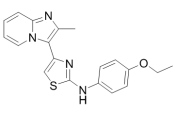
HY-N0836
Jervine
Jervine(11-Ketocyclopamine) is a naturally occuring steroidal alkaloid that causes cyclopia by blocking sonic hedgehog(Shh) signaling; Jervine is an inhibitor of Smo.
Target: Hedgehog
Effect: Inhibitor
(CAS No. : 469-59-0)



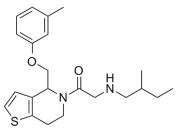
HY-18366A
RU-SKI 43 hydrochloride
RU-SKI 43 Hcl is a small molecule inhibitor of Hhat (Hedgehog acyltransferase), the enzyme responsible for the attachment of palmitate onto Shh.
Target: Hedgehog
Effect: Inhibitor



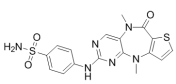
HY-100790
Ciliobrevin A
Ciliobrevin A is a hedgehog (Hh) signaling pathway inhibitor with median inhibitory concentration (IC50) less than 10 μM.
Target: Hedgehog
Effect: Inhibitor
(CAS No. : 302803-72-1)



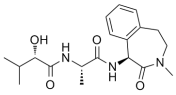
HY-13307
JK184
JK184 is a potent Hedgehog (Hh) pathway inhibitor with IC50 of 30 nM in mammalian cells.
Target: Hedgehog
Effect: Inhibitor
(CAS No. : 315703-52-7)



HY-18366
RU-SKI 43
RU-SKI 43 is a small molecule inhibitor of Hhat (Hedgehog acyltransferase), the enzyme responsible for the attachment of palmitate onto Shh.
Target: Hedgehog
Effect: Inhibitor
(CAS No. : 1043797-53-0)



HY-100526
XMU-MP-1
XMU-MP-1 is a reversible and selective MST1/2 inhibitor with IC50 values of 71.1 and 38.1 nM against MST1 and MST2.
Target: Hippo (MST)
Effect: Inhibitor
(CAS No. : 2061980-01-4)



HY-10009
Semagacestat
Semagacestat is a γ-secretase inhibitor, inhibits β-amyloid (Aβ42), Aβ38 and Aβ40 with IC50 of 10.9, 12 and 12.1 nM, respectively; also inhibits Notch signaling with IC50 of 14.1 nM.
Target: Notch
Effect: Inhibitor
(CAS No. : 425386-60-3)

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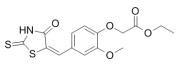
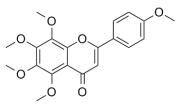
幹細胞/Wntシグナル 関連化合物
～Stem Cell/Wnt～

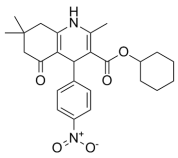
MCE MedChem Express



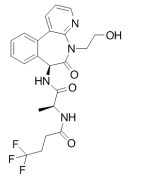
HY-100431
IMR-1
IMR-1 is a novel class of Notch inhibitors targeting the transcriptional activation with IC50 of 6 μmol/L.
Target:Notch
Effect: Inhibitor
(CAS No. : 310456-65-6)



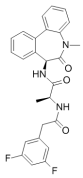
HY-N0133
Tangeretin
Tangeretin, a flavonoid from citrus fruit peels, has been proven to play an important role in anti-inflammatory responses and neuroprotective effects in several disease models, and was also selected as a Notch-1 inhibitor.
Target:Notch
Effect: Inhibitor
(CAS No. : 481-53-8)



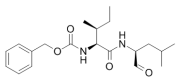
HY-15860
FLI-06
FLI-06 is an inhibitor of Notch signaling with an EC50 of 2.3 μM.
Target:Notch
Effect: Inhibitor
(CAS No. : 313967-18-9)



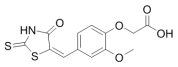
HY-12449
LY3039478
LY3039478 is a novel and potent Notch inhibitor.
Target:Notch
Effect: Inhibitor
(CAS No. : 1421438-81-4)



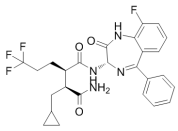
HY-13526
YO-01027
YO-01027 (Dibenzazepine;DBZ) is a potent γ-secretase inhibitor with IC50 values of 2.92±0.22 and 2.64±0.30 nM for Notch and APPL cleavage, respectively.
Target:Notch
Effect: Inhibitor
(CAS No. : 209984-56-5)



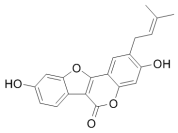
HY-12465
Z-Ile-Leu-aldehyde
Z-Ile-Leu-aldehyde(Z-IL-CHO; GSI-XII) is a potent gamma-Secretase inhibitor; Notch signaling inhibitor.
Target:Notch
Effect: Inhibitor
(CAS No. : 161710-10-7)



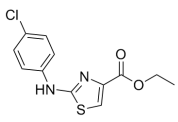
HY-100431A
IMR-1A
IMR-1A is the metabolite of IMR-1. IMR-1 is a novel class of Notch inhibitors targeting the transcriptional activation with IC50 of 6 μmol/L.
Target:Notch
Effect: Inhibitor
(CAS No. : 331862-41-0)



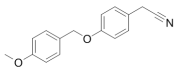
HY-12419
BMS-983970
BMS-983970 is an oral pan-Notch inhibitor for the treatment of cancer.
Target:Notch
Effect: Inhibitor
(CAS No. : 1584713-87-0)



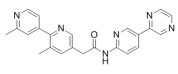
HY-N0232
Psoralidin
Psoralidin, a natural furanocoumarin, is isolated from Psoralea corylifolia L. possessing anti-cancer properties.
Target:Notch
Effect: Inhibitor
(CAS No. : 18642-23-4)



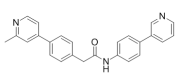
HY-18772
O4I2
O4I2 is a potent Oct3/4 inducer in various human cell lines including human fibroblasts.
Target:Oct3/4
Effect: Activator
(CAS No. : 165682-93-9)



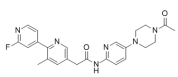
HY-18771
O4I1
O4I1 is as a potent Oct3/4 inducer.
Target:Oct3/4
Effect: Activator
(CAS No. : 175135-47-4)



HY-17545
LGK974
LGK974 is a potent and specific Porcupine (PORCN) inhibitor, also potently inhibits Wnt signaling in the aforementioned Wnt coculture assay with IC50 of 0.4 nM.
Target:Porcupine
Effect: Inhibitor
(CAS No. : 1243244-14-5)



HY-15659
Wnt-C59
Wnt-C59 is a potent PORCN enzymatic activity and Wnt inhibitor.
Target:Porcupine
Effect: Inhibitor
(CAS No. : 1243243-89-1)



HY-100408
GNF-6231
GNF-6231 is a potent, selective, and orally bioavailable Porcupine inhibitor that blocks Wnt signaling.
Target:Porcupine
Effect: Inhibitor
(CAS No. : 1243245-18-2)

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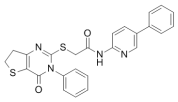
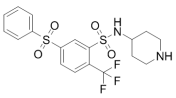
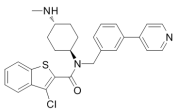


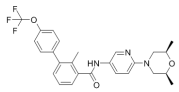
HY-15825
IWP L6
IWP L6 is a Porcn inhibitor with EC50 of 0.5 nM.
Target: Porcupine
Effect: Inhibitor
(CAS No. : 1427782-89-5)



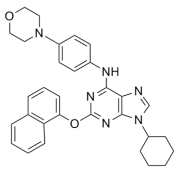
HY-10858
WAY 316606
WAY 316606 is a sFRP-1 (Secreted frizzled-related proteins) inhibitor(Ki=80 nM); an endogenous antagonist of the secreted glycoprotein Wnt.
Target: sFRP-1
Effect: Inhibitor
(CAS No. : 915759-45-4)



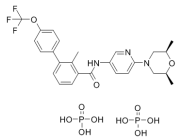
HY-12848
SAG
SAG is a potent Smoothened (Smo) receptor agonist (Kd = 59 nM); potently activates the Hedgehog signaling pathway in Shh-light 2 cells (EC50 ~ 3 nM).
Target: Smo
Effect: Agonist
(CAS No. : 912545-86-9)



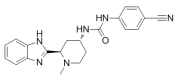
HY-16582A
LDE225
LDE225 is a potent and selective Smo antagonist with IC50 of 1.3 nM and 2.5 nM for mouse and human Smo in binding assay, respectively.
Target: Smo
Effect: Antagonist
(CAS No. : 956697-53-3)



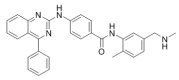
HY-15108
Purmorphamine
Purmorphamine is an activator of Smoothened, and blocks BODIPY-cyclopamine binding to Smo with IC50 of appr 1.5 μM and also is an inducer of osteoblast differentiation with EC50 of 1 μM.
Target: Smo
Effect: Activator
(CAS No. : 483367-10-8)



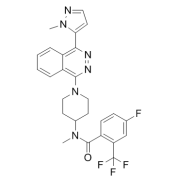
HY-16582
LDE225 Diphosphate
LDE225 Diphosphate is a potent and selective Smo antagonist with IC50 of 1.3 nM and 2.5 nM for mouse and human Smo in binding assay, respectively.
Target: Smo
Effect: Antagonist
(CAS No. : 1218778-77-8)



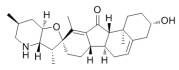
HY-16391
PF-04449913
PF-04449913 is a potent and orally bioavailable smoothened inhibitor.
Target: Smo
Effect: Inhibitor
(CAS No. : 1095173-27-5)



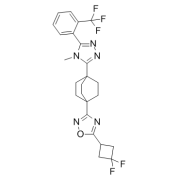
HY-13809
BMS-833923
BMS-833923 (XL-139) is an orally bioavailable small-molecule inhibitor of Smoothened with potential antineoplastic activity; inhibits BODIPY cyclopamine binding to SMO in a dose-dependent manner with an IC50 of 21 nM.
Target: Smo
Effect: Inhibitor
(CAS No. : 1059734-66-5)



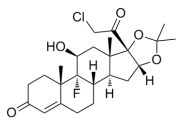
HY-13242
LY2940680
LY2940680 binds to the Smoothened (Smo) receptor and potently inhibits Hedgehog (Hh) signaling.
Target: Smo
Effect: Inhibitor
(CAS No. : 1258861-20-9)



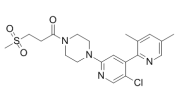
HY-N0836
Jervine
Jervine(11-Ketocyclopamine) is a naturally occuring steroidal alkaloid that causes cyclopia by blocking sonic hedgehog(Shh) signaling; Jervine is an inhibitor of Smo.
Target: Smo
Effect: Inhibitor
(CAS No. : 469-59-0)



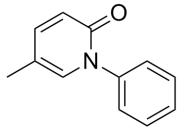
HY-100036
MK-4101
MK-4101 is a potent SMO Inhibitor of the Hedgehog Pathway, highly active against Medulloblastoma and Basal Cell Carcinoma.
Target: Smo
Effect: Inhibitor
(CAS No. : 935273-79-3)



HY-B0877
Halcinonide
Halcinonide is a high potency corticosteroid used topically in the treatment of certain skin conditions.
Target: Smo
Effect: Agonist
(CAS No. : 3093-35-4)



HY-13459
PF-5274857
PF-5274857 is a potent and selective Smoothened (Smo) antagonist, inhibits Hedgehog (Hh) signaling with IC50 and Ki of 5.8 nM and 4.6 nM, respectively, and can penetrate the blood-brain barrier.
Target: Smo
Effect: Antagonist
(CAS No. : 1373615-35-0)



HY-B0673
Pirfenidone
Pirfenidone leads to a reduction of TGF-β 2 mRNA levels and of the mature TGF-β 2 protein due to decreased expression and direct inhibition of the TGF-β pro-protein convertase furin.
Target: TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 53179-13-8)

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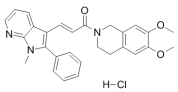
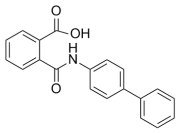
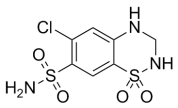


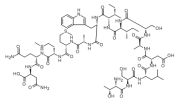
HY-13013
SIS3
SIS3 is a potent and selective inhibitor of Smad3. a potent regulator of the human Nox4 promoter.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 521984-48-5)



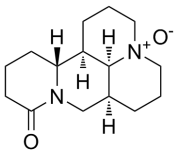
HY-16268
Kartogenin
Kartogenin is an inducer of differentiation of human mesenchymal stem cells into chondrocytes.
Target:TGF-beta/Smad
(CAS No. : 4727-31-5)



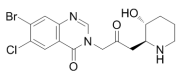
HY-B0252
Hydrochlorothiazide
Hydrochlorothiazide is a diuretic drug of the thiazide class.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 58-93-5)



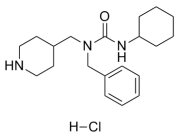
HY-P0118
Disitertide
Disitertide also named P144, is a inhibitor of TGF-β1.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 272105-42-7)



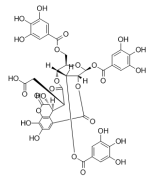
HY-N0158
Oxymatrine
Oxymatrine, an alkaloid from the roots of Sophora species, with anti-inflammatory, antifibrosis, and antitumor effects, inhibits the iNOS expression and TGF-β/Smad pathway.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 16837-52-8)



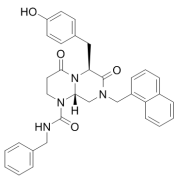
HY-N1584
Halofuginone
Halofuginone is a plant derivative that has been shown to inhibit Th17 differentiation, and recently tested as a potential immunosuppressant.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 55837-20-2)



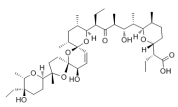
HY-100347A
SRI-011381 hydrochloride
SRI-011381 hydrochloride is a TGF-beta signaling agonist.
Target:TGF-beta/Smad
Effect: Agonist



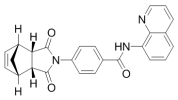
HY-N2033
Chebulinic acid
Chebulinic acid is a potent natural inhibitor of M. tuberculosis DNA gyrase, also can inhibit SMAD-3 phosphorylation, inhibit H+ K+-ATPase activity.
Target:TGF-beta/Smad
Effect: Inhibitor
(CAS No. : 18942-26-2)



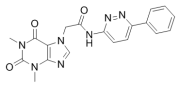
HY-14428
ICG-001
ICG-001 is an antagonist of Wnt/β-catenin/TCF-mediated transcription and specifically binds to element-binding protein (CBP) with IC50 of 3 μM.
Target:Wnt
Effect: Inhibitor
(CAS No. : 847591-62-2)



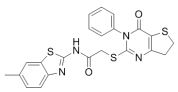
HY-15597
Salinomycin
Salinomycin is an inhibitor of Wnt/β-catenin signaling, which acts on the Wnt/Fzd/LRP complex.
Target:Wnt
Effect: Inhibitor
(CAS No. : 53003-10-4)



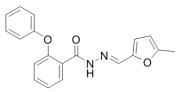
HY-12238
IWR-1
IWR-1(IWR-1-endo) is a novel small-molecule inhibitor of Wnt signaling by stabilizing the Axin destruction complex with an EC50 of 0.2 uM.
Target:Wnt
Effect: Inhibitor
(CAS No. : 1127442-82-3)



HY-18988
ETC-159
ETC-159 is a potent, orally available PORCN inhibitor.
Target:Wnt
Effect: Inhibitor
(CAS No. : 1638250-96-0)



HY-13912
IWP-2
IWP-2 is an inhibitor of Wnt processing and secretion with IC50 of 27 nM.
Target:Wnt
Effect: Inhibitor
(CAS No. : 686770-61-6)



HY-101130
PNU-74654
PNU-74654 is an inhibitor of Wnt/β-catenin pathway with an IC50 of 129.8 μM in NCI-H295 cell.
Target:Wnt
Effect: Inhibitor
(CAS No. : 113906-27-7)

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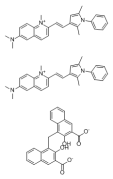
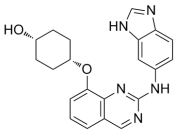
幹細胞/Wntシグナル 関連化合物
～Stem Cell/Wnt～

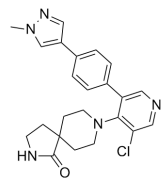
MCE MedChem Express



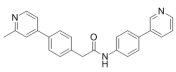
HY-A0293
Pyrvinium pamoate
Pyrvinium pamoate, a well-known anthelmintic drug, acts as a selective WNT pathway inhibitor.
Target:**Wnt**
Effect: **Inhibitor**



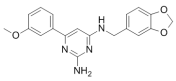
HY-100830
NCB-0846
NCB-0846 is an orally available TNIK inhibitor with an IC50 of 21 nM.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 1792999-26-8)



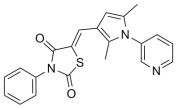
HY-12681
CCT251545
CCT251545 is an orally bioavailable and potent inhibitor of WNT signaling with IC50 value of 5 nM.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 1661839-45-7)



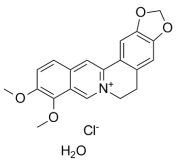
HY-15659
Wnt-C59
Wnt-C59 is a potent PORCN enzymatic activity and Wnt inhibitor.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 1243243-89-1)



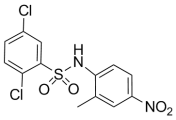
HY-19987
BML-284
BML-284 is potent selective, and cell-permeable Wnt signaling activator.
Target:**Wnt**
Effect: **Activator**
(CAS No. : 853220-52-7)



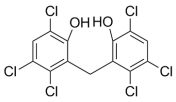
HY-16665
iCRT 14
iCRT 14 is a novel potent inhibitor of β-catenin-responsive transcription (CRT) (IC50 = 40.3 nM in assays of Wnt pathway activity).
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 677331-12-3)



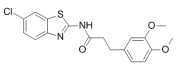
HY-17577
Berberine chloride hydrate
Berberine has shown to be effective in inhibiting cell proliferation and promoting apoptosis in various cancerous cells; MAPK and Wnt/β-catenin pathways affected by Berberine.
Target:**Wnt**
Effect: **Activator**
(CAS No. : 141433-60-5)



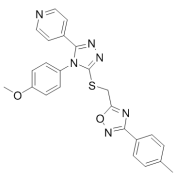
HY-15721
FH535
FH535 is a compound that suppresses both Wnt/beta-catenin and peroxisome proliferator-activated receptor (PPAR) signaling.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 108409-83-2)



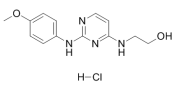
HY-12637
Hexachlorophene
Hexachlorophene(Hexachlorofen) is a potent KCNQ1/KCNE1 potassium channel activator with EC50 of 4.61 ± 1.29 μM; also is an inhibitor of Wnt/beta-catenin signaling.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 70-30-4)



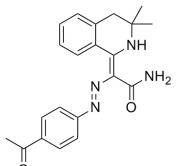
HY-13815
KY02111
KY02111 is a small molecule which can promote differentiation of hPSCs to cardiomyocytes.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 1118807-13-8)



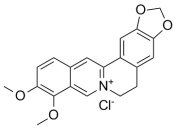
HY-19739
JW74
JW74 is an efficient and specific inhibitor of the canonical Wnt signaling. JW74 shows a reduction of canonical Wnt signaling in the ST-Luc assay with IC50 values of 790 nM.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 863405-60-1)



HY-12319A
Cardiogenol C hydrochloride
Cardiogenol C hydrochloride is a cell-permeable pyrimidine compound which potently induces the differentiation of ESCs into cardiomyocytes (EC50= 100 nM).
Target:**Wnt**
Effect: **Activator**
(CAS No. : 1049741-55-0)



HY-10593
IQ-1
IQ-1 has many functions such as decreasing Wnt-stimulated phosphorylation, maintaining the pluripotency of murine ESCs, preventing PP2A/Nkd interaction and so on.
Target:**Wnt**
Effect: **Inhibitor**
(CAS No. : 331001-62-8)



HY-18258
Berberine chloride
Berberine has shown to be effective in inhibiting cell proliferation and promoting apoptosis in various cancerous cells; MAPK and Wnt/β-catenin pathways affected by Berberine.
Target:**Wnt**
Effect: **Activator**
(CAS No. : 633-65-8)

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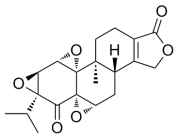
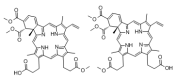
～Stem Cell/Wnt～

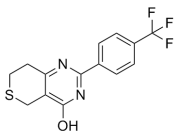
MCE MedChem Express



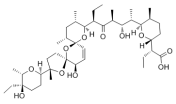
HY-32736
Triptonide
Triptonide(NSC 165677; PG 492), extracted from Tripterygium wilfordii Hook, inhibited the proliferation of mouse splenocytes induced by suboptimal concentration of concanavalin A or lipopolysaccharide at concentrations of 0.02, 0.1, and 0.5 mg/ml.
Target:Wnt
Effect: Inhibitor
(CAS No. : 38647-11-9)



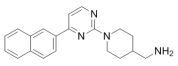
HY-B0146
Verteporfin
Verteporfin is a benzoporphyrin derivative monoacid ring A, and can inhibit the activity of YAP.
Target:YAP
Effect: Inhibitor
(CAS No. : 129497-78-5)



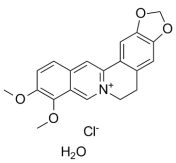
HY-15147
XAV-939
XAV-939 is a selective Wnt pathway β-catenin-mediated transcription inhibitor and axin stabilizing agent with IC50 values of 11 and 4 nM for the inhibition of TNKS1 and TNKS2, respectively.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 284028-89-3)



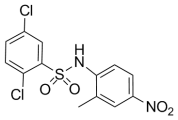
HY-15597
Salinomycin
Salinomycin is an inhibitor of Wnt/β-catenin signaling, which acts on the Wnt/Fzd/LRP complex.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 53003-10-4)



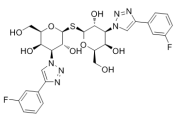
HY-11035
WAY-262611
WAY-262611 is a wingless β-Catenin agonist that increases bone formation rate with an EC50 of 0.63 μM in TCF-Luciferase assay.
Target: β-catenin
Effect: Agonist
(CAS No. : 1123231-07-1)



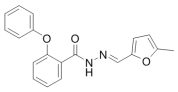
HY-17577
Berberine chloride hydrate
Berberine has shown to be effective in inhibiting cell proliferation and promoting apoptosis in various cancerous cells; MAPK and Wnt/β-catenin pathways affected by Berberine.
Target: β-catenin
Effect: Activator
(CAS No. : 141433-60-5)



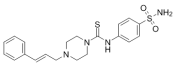
HY-15721
FH535
FH535 is a compound that suppresses both Wnt/beta-catenin and peroxisome proliferator-activated receptor (PPAR) signaling.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 108409-83-2)



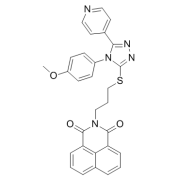
HY-19940
TD139
TD139 is a novel high-affinity inhibitor of the galectin-3 carbohydrate binding domain with a Kd of 14 nM.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 1450824-22-2)



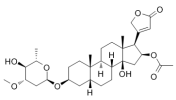
HY-101130
PNU-74654
PNU-74654 is an inhibitor of Wnt/β-catenin pathway with an IC50 of 129.8 μM in NCI-H295 cell.
Target: β-catenin
Effect: Inhibitor



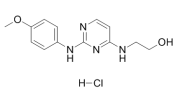
HY-101486
LF3
LF3 is an antagonist of the β-Catenin/TCF4 interaction with antitumor activity; has an IC50 of 1.65 μM.
Target: β-catenin
Effect: Antagonist
(CAS No. : 664969-54-4)



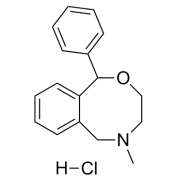
HY-16910
WIKI4
WIKI4 is a potent inhibitor of Wnt/β-catenin signaling (EC50 ~ 75 nM); inhibits auto-ADP-ribosylation of tankyrase 2 (TNKS2) (IC50 ~15 nM).
Target: β-catenin
Effect: Inhibitor
(CAS No. : 838818-26-1)



HY-13719
Oleandrin
Oleandrin (a toxic cardiac glycoside of N. oleander L.) inhibits the activity of NF-κB in various cultured cell lines (U937, CaOV3, human epithelial cells and T cells) as well as it induces programmed cell death in PC3 cell line culture.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 465-16-7)



HY-12319A
Cardiogenol C hydrochloride
Cardiogenol C hydrochloride is a cell-permeable pyrimidine compound which potently induces the differentiation of ESCs into cardiomyocytes (EC50= 100 nM).
Target: β-catenin
Effect: Activator
(CAS No. : 1049741-55-0)



HY-B1057
Nefopam hydrochloride
Nefopam is a centrally-acting but non-opioid analgesic drug, for the relief of moderate to severe pain.
Target: β-catenin
Effect: Inhibitor
(CAS No. : 23327-57-3)

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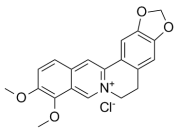


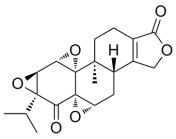
HY-18258

Berberine chloride

Berberine has shown to be effective in inhibiting cell proliferation and promoting apoptosis in various cancerous cells; MAPK and Wnt/β-catenin pathways affected by Berberine.

Target: **β-catenin**
Effect: **Activator**

(CAS No. : 633-65-8)



HY-32736

Triptonide

Triptonide(NSC 165677; PG 492), extracted from Tripterygium wilfordii Hook, inhibited the proliferation of mouse splenocytes induced by suboptimal concentration of concanavalin A or lipopolysaccharide at concentrations of 0.02, 0.1, and 0.5 mg/ml.

Target: **β-catenin**
Effect: **Inhibitor**

(CAS No. : 38647-11-9)

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