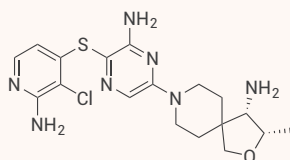


Building Blocks / Pharmaceutical Intermediates / Chemical Reagents

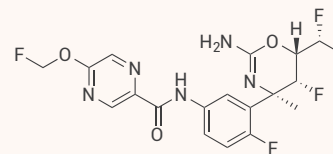
www.ChemScene.com



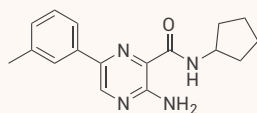
The pyrazine unit is an important structural motif that widely existed in many bioactive and nature compounds.^[1] Pyrazine derivatives have attracted wide pharmaceutical interests because of their potential uses in the treatment of psychiatric disorders, neurological diseases (e.g., stress, anxiety and depression), and cardiovascular disorders.^[2] They are reported to modulate the activity of CRF1 (corticotropin-releasing factor 1) receptors. Besides, they are also versatile building blocks in the synthesis of VCAM-1 (vascular cell adhesion molecule-1) inhibitors, pyrazine alkaloids (antineoplastic activity), and imidazopyrazin coelenterazine (bioluminescent).^[2] In recent years, pyrazine scaffold has been found in more and more drug molecules.^[3-7]



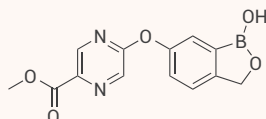
Allosteric SHP2 Inhibitor



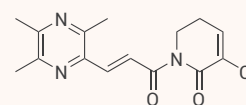
BACE1 Inhibitor



Trypanosoma brucei Inhibitor



Antimalarial Agent



Anticancer Agent

A series of medicinal products containing pyrazine has been firmly incorporated in medical practice.

[1] *Advanced Synthesis & Catalysis* (2020), 362(17), 3621-3626.

[2] *Tetrahedron Letters* (2009), 50(14), 1618-1621.

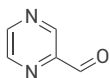
[3] *Journal of Medicinal Chemistry* (2020), Ahead of Print. DOI: 10.1021/acs.jmedchem.0c01170

[4] *Journal of Medicinal Chemistry* (2015), 58(17), 6753-6765.

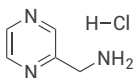
[5] *Journal of Medicinal Chemistry* (2015), 58(13), 5344-5354.

[6] *Journal of Medicinal Chemistry* (2018), 61(5), 1821-1832.

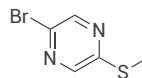
[7] *Journal of Medicinal Chemistry* (2018), 61(13), 5525-5546.



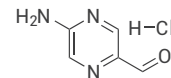
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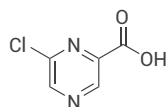
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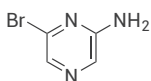
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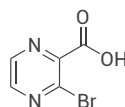
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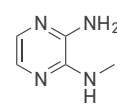
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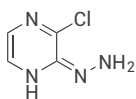
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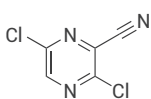
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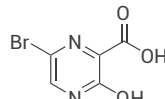
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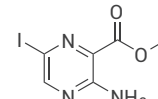
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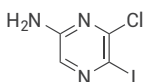
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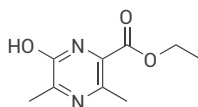
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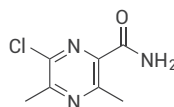
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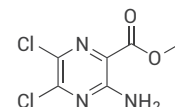
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