

PharmaBlock

PharmaBlock Whitepaper
Bridging molecules for innovative medicines

Trifluoromethylpyridines in Drug Discovery

Trifluoromethylpyridine fragment exists in at least three marketed drugs: Agios' isocitrate dehydrogenase 2 (IDH2) allosteric inhibitor enasidenib (Idhifa), Upjohn's HIV protease inhibitor tipranavir, and Janssen's androgen receptor antagonist apalutamide. The trifluoromethyl group may form tetrel bonding with heteroatoms on target proteins and the nitrogen atom on pyridine can serve as a hydrogen bond acceptor, establishing further binding points to target proteins. As a consequence, trifluoromethylpyridine is a privileged structure in drug discovery. It may offer tighter binding to the target protein, improving a drug's solubility, metabolism, stability, and other drug-like properties.

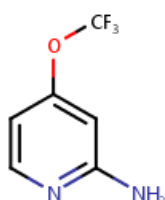


PharmaBlock Products-Trifluoromethylpyridines

80,000+ building blocks, 63 series cover almost all the small molecule drugs R&D need

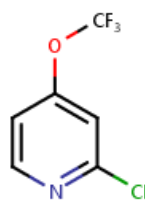
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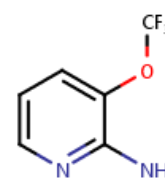
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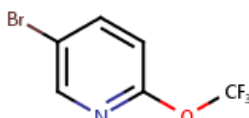
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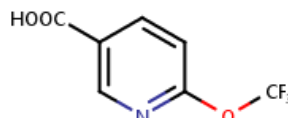
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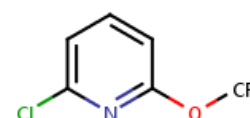
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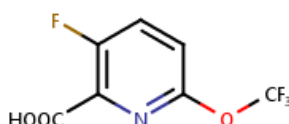
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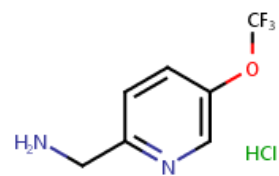
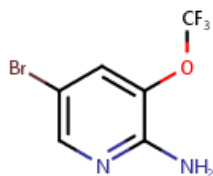
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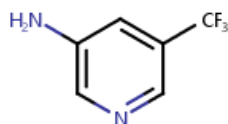
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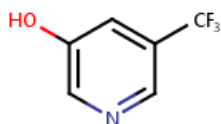
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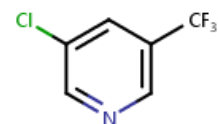
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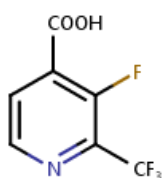
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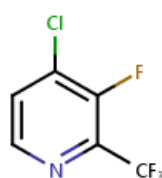
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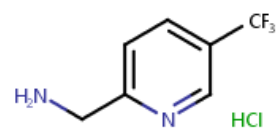
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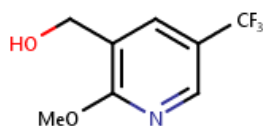
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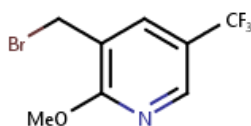
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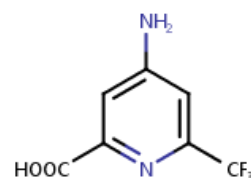
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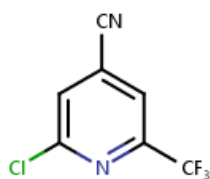
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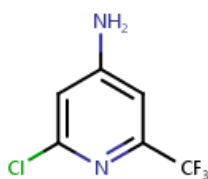
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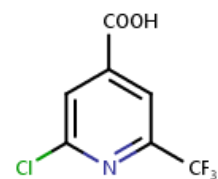
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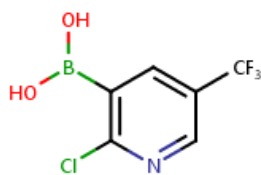
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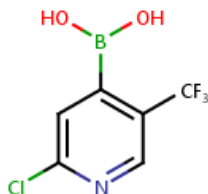
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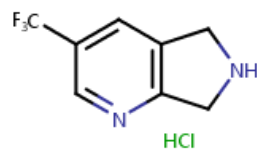
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