

PharmaBlock Whitepaper
Bridging molecules for innovative medicines

Pyridine, A Privileged Scaffold in Drug Discovery—The Magic of Phenyl–Pyridyl Switch

With 6π -electrons, pyridine is an electron-deficient aromatic heterocycle containing a ring nitrogen atom. The aromatic π -electron system does not require participation of the lone pair of electrons on the nitrogen atom. The ring nitrogen is more electronegative than the ring carbons, making the two α -ring carbons and the γ -ring carbon more electropositive than otherwise would be expected from benzene.

In the context of medicinal chemistry, replacement of a CH group with an N atom on a phenyl ring may influence a drug's molecular and physicochemical properties, as well as its intra- and intermolecular interactions that can translate to improved pharmaceutical profiles.

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**Pyridine Derivatives
in Drug Discovery**

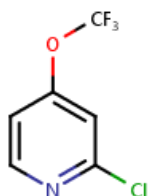
PharmaBlock

PharmaBlock Products-Pyridines

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

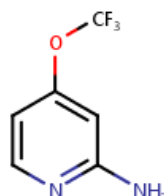
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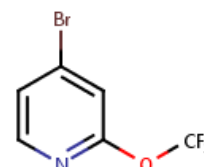
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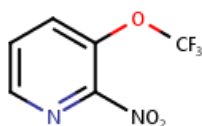
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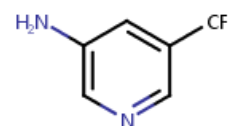
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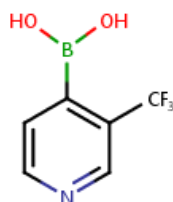
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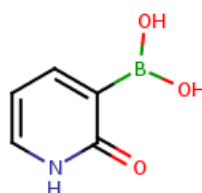
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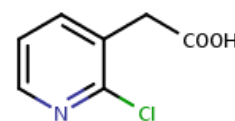
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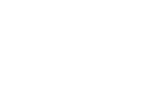
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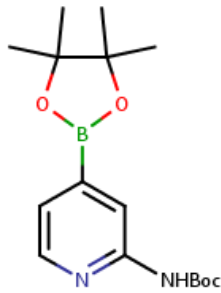
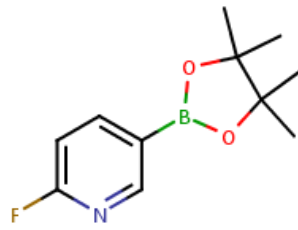
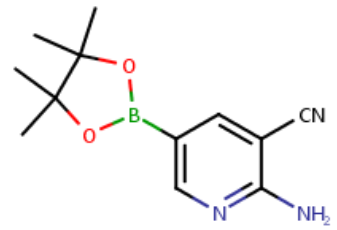
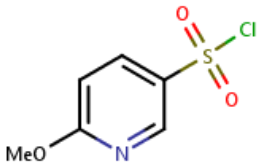
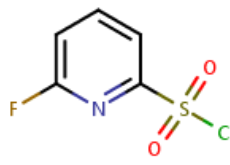
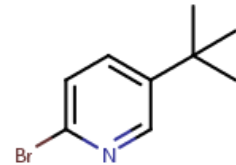
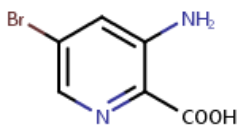
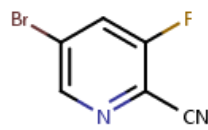
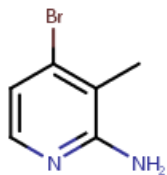
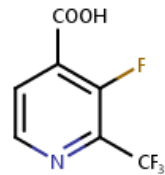
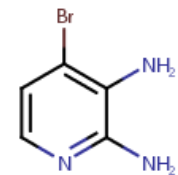
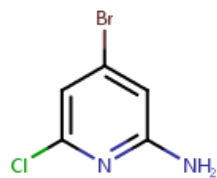
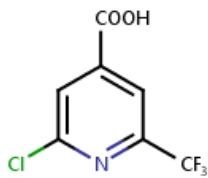
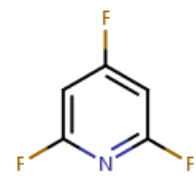
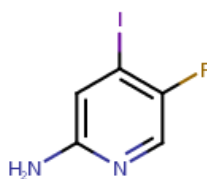
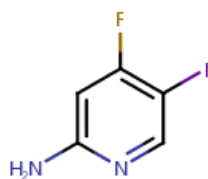
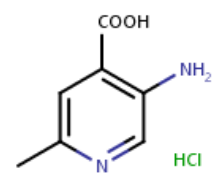
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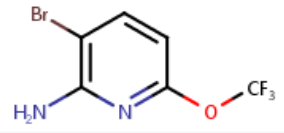
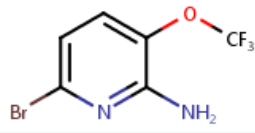
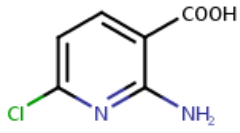


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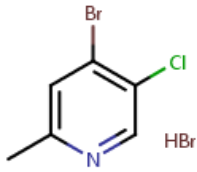
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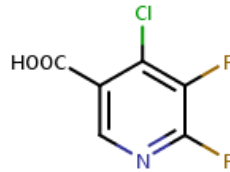
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