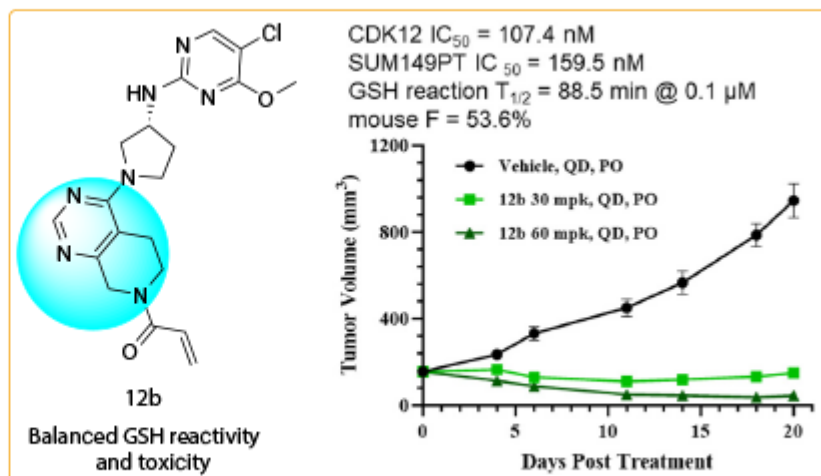
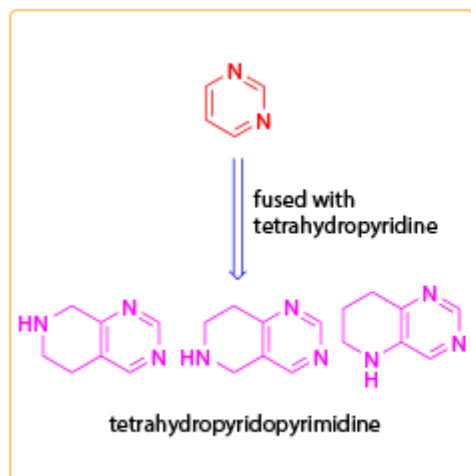


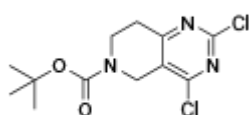
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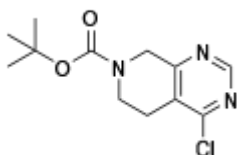
Tetrahydropyridopyrimidine features a fused bicyclic system in which a partially saturated pyridine (tetrahydropyridine) merges with a pyrimidine ring, creating a semi-rigid framework. The pyrimidine's electron-rich regions (N1, N3) enable strong polar interactions with kinase active sites, while the tetrahydropyridine moiety allows precise 3D functional alignment for protease inhibition. Partial saturation improves pharmacokinetic properties by enhancing solubility and decreasing oxidative metabolism, in contrast to fully aromatic scaffolds. Simultaneously, the planar pyrimidine ring facilitates π - π stacking in enzyme pockets, stabilizing ligand-receptor complexes. The duality of this structure makes it a versatile scaffold in drug discovery. So far, Chemexpress has developed many tetrahydropyridopyrimidine building blocks.



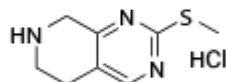
Lu, H. et al., *J. Med. Chem.* 2025, 68, 4148–4167



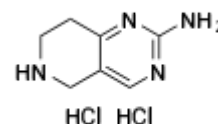
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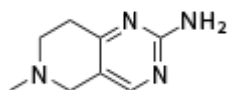
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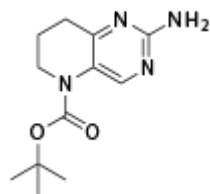
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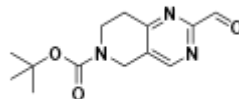
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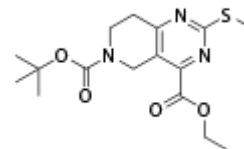
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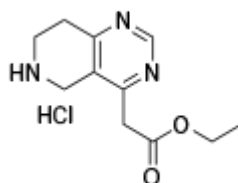
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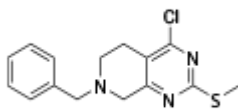
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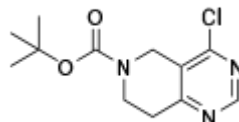
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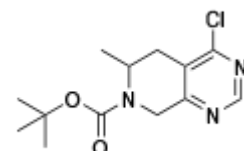
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Cat. No. : HY-W577664
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