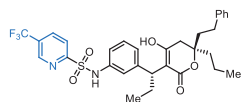


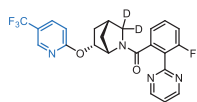
Analogues of CF₃-Chloropyridine

Introduction

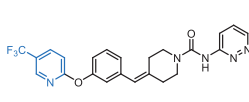
Among recurring drug motifs, 2-substituted 5-CF₃-pyridine is extremely common, enabling a broad spectrum of interactions within protein pockets.^{1,2} To incorporate this fragment, the 2-chloro derivative is widely used, making 2-Cl-5-CF₃-pyridine one of the most popular building blocks in modern medicinal chemistry research.^{3,4} At Enamine, we have prepared an extensive library of analogues of this compound, ready to diversify your compound collections.



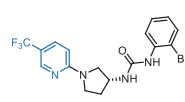
Tipranavir
inhibitor of Pol. polyprotein
FDA approved 2005 against HIV-1
Boehringer Ingelheim



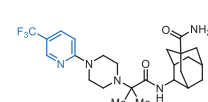
Tobideutorexant (JNJ-61393215)
antagonist of the orexin receptor type 1
Phase 2 trials against depression
Janssen



PF-04457845
inhibitor of fatty acid amide hydrolase
Phase 2 trials against cannabis dependence
Pfizer



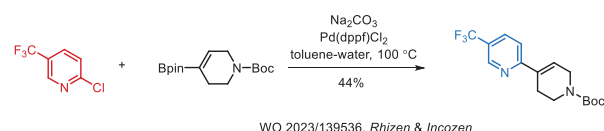
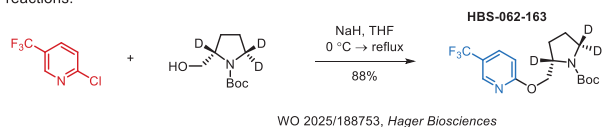
SB-705498
selective blocker of the TRPV1 ion channel
Phase 2 trials against migraine and rhinitis
GlaxoSmithKline



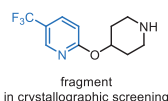
ABT-384
selective inhibitor of 11-β-hydroxysteroid dehydrogenase type 1
Phase 2 trials against Alzheimer's
Abbott

Case studies

reactions:

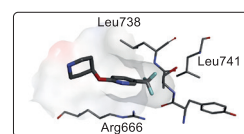


structures:

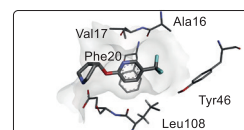


pyridine interactions:
Arg, Leu, Phe, Val

CF₃-group interactions:
Leu, Val, Tyr

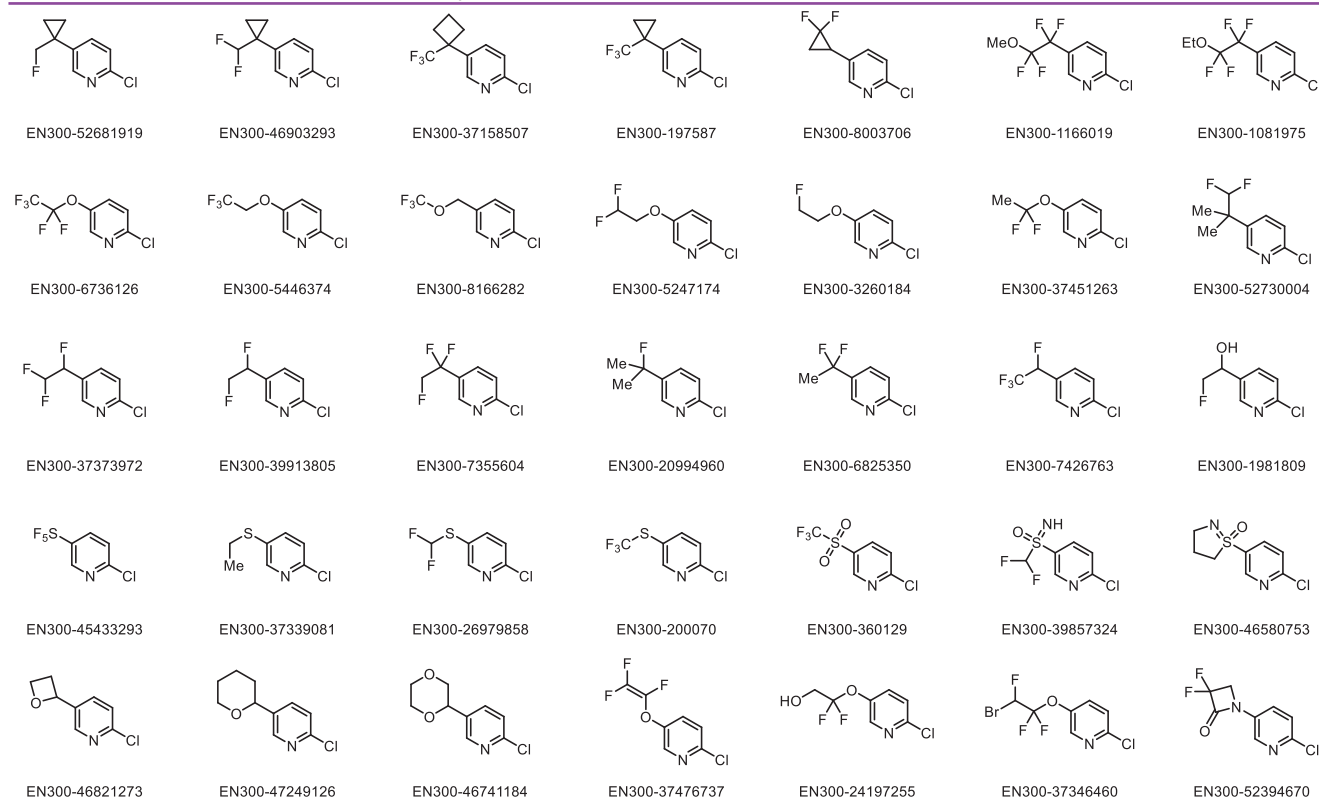


PDB entry: 5fza
with human lysine specific demethylase 5B



PDB entry: 7hjr
with de novo ABL protein

We offer: over 100 analogues of 5-CF₃-2-Cl-pyridine from stock on 5-10 gram scale.



References

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- M. Di Stefano et al. *Eur. J. Med. Chem.* **2024**, 263, 115916.

- A. Angeli et al. *J. Med. Chem.* **2023**, 66, 1616.
- Y. Chen et al. *J. Med. Chem.* **2024**, 67, 12033.



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