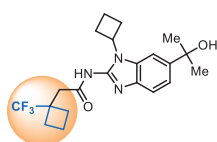


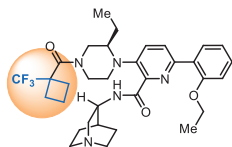
CF₃-Cyclobutane for Enhanced Metabolic Stability

Introduction

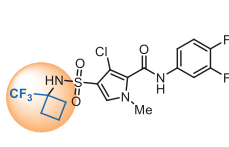
Achieving resistance to metabolic clearance is a key objective in optimizing the structures of orally available drugs. In pursuit of this goal, replacing *tert*-butyl groups^{1,2}, aromatic moieties,³ and several other hydrophobic functional groups⁴ with a 1-trifluoromethyl-cyclobutyl group has shown promising results, maintaining bioactivity while reducing metabolic degradation. Recently, scientists at Enamine developed a practical synthetic approach to prepare dozens of building blocks featuring the 1-trifluoromethyl-cyclobutyl group, facilitating future construction of bioactive compounds.²



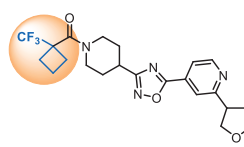
K77 potassium channel activator
WO 2024/054811
Biohaven Ther



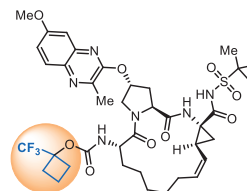
melanocortin type 2 receptor antagonists
WO 2024/211343
Crinetics Pharm



capsid assembly modulator, against HBV
WO 2021/178612
Janssen

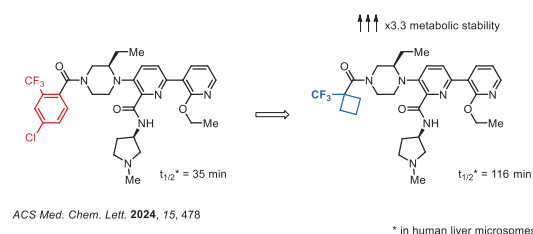
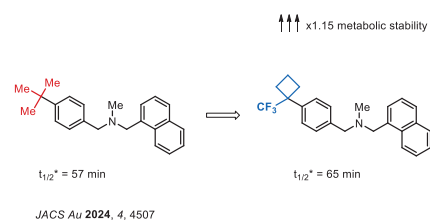
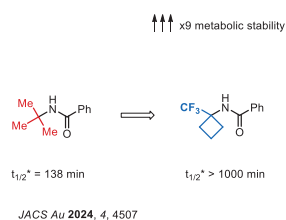


SCD1 and SCD5 inhibitors
WO 2019/209948
Yumanity Ther

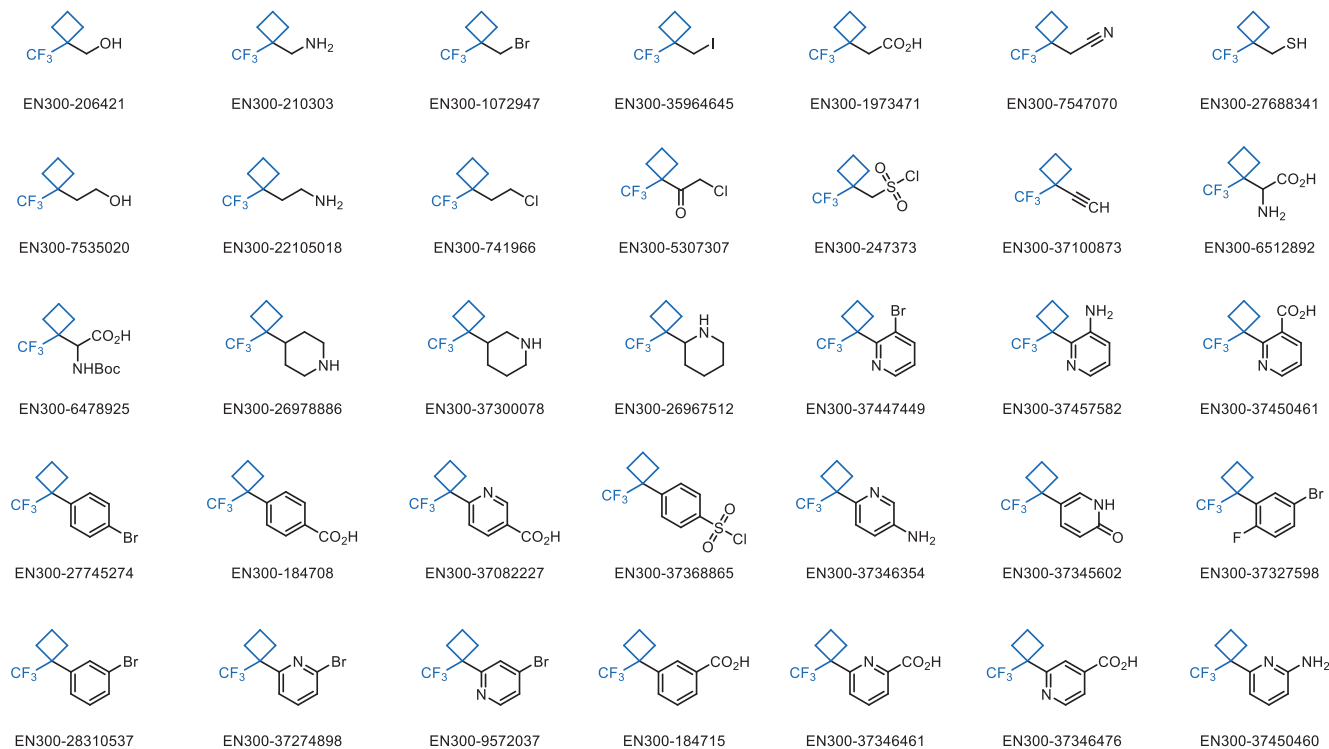


HCV NS3/4A protease inhibitor
WO 2020/247736
University of Massachusetts

Key advantage



We offer: over 50 1-trifluoromethylcyclobutanes from stock on 5-10 gram scale.



References

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2. V. Ahunovych et al. *JACS Au* **2024**, *4*, 4507.

3. S. Kim et al. *ACS Med. Chem. Lett.* **2024**, *15*, 478.
4. J. Mowat et al. *J. Med. Chem.* **2024**, *67*, 17429



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