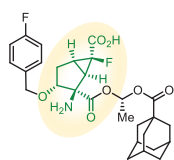


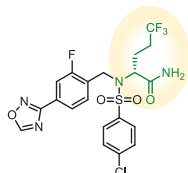
Advances in Fluorinated Amino Acids

Introduction

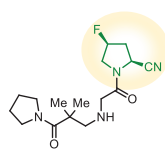
Fluorine-containing amino acids play a crucial role in modulating molecular polarity, volume, stabilizing specific conformations, and adjusting pK_a providing invaluable support in the design of drugs and peptidomimetics. Our team of skilled chemists specializes in synthesizing cutting-edge fluorinated amino acids, with a significant number exclusively offered through Enamine. These novel compounds are frequently incorporated into our inventory even before their publication.¹⁻⁴



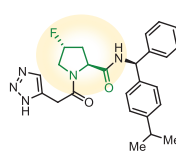
TP0473292
metabotropic glutamate 2 and 3 receptor antagonist
Phase 2 trials against depression
Taisho Pharm



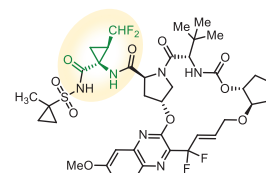
Avagacestat
 γ -secretase inhibitor
Phase 2 trials against Alzheimer's
Bristol-Myers Squibb



Prusoglitin
dipeptidyl peptidase-4 inhibitor
Phase 3 trials against type 2 diabetes
CSPS Pharm

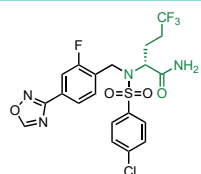


MZ-101
inhibitor of glycogen synthase 1
preclinical candidate against Pompe disease
Maze Ther



Glecaprevir
inhibitor of HCV protease NS3
FDA approved against hepatitis C in 2017
AbbVie and Enanta

Case study



BMS-708163, Bristol-Myers Squibb

selective γ -secretase Inhibitor

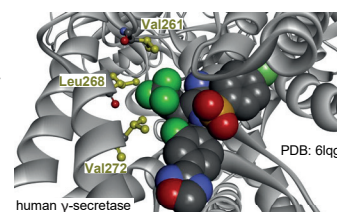
IC₅₀ against amyloid- β 0.30 nM (desired)
IC₅₀ against Notch 58 nM (not desired)

ACS Med. Chem. Lett. 2010, 1, 120

Phase 2 trials against Alzheimer's disease

CF₃-group accommodated by a hydrophobic pocket made of Val261, Leu268, and Val272

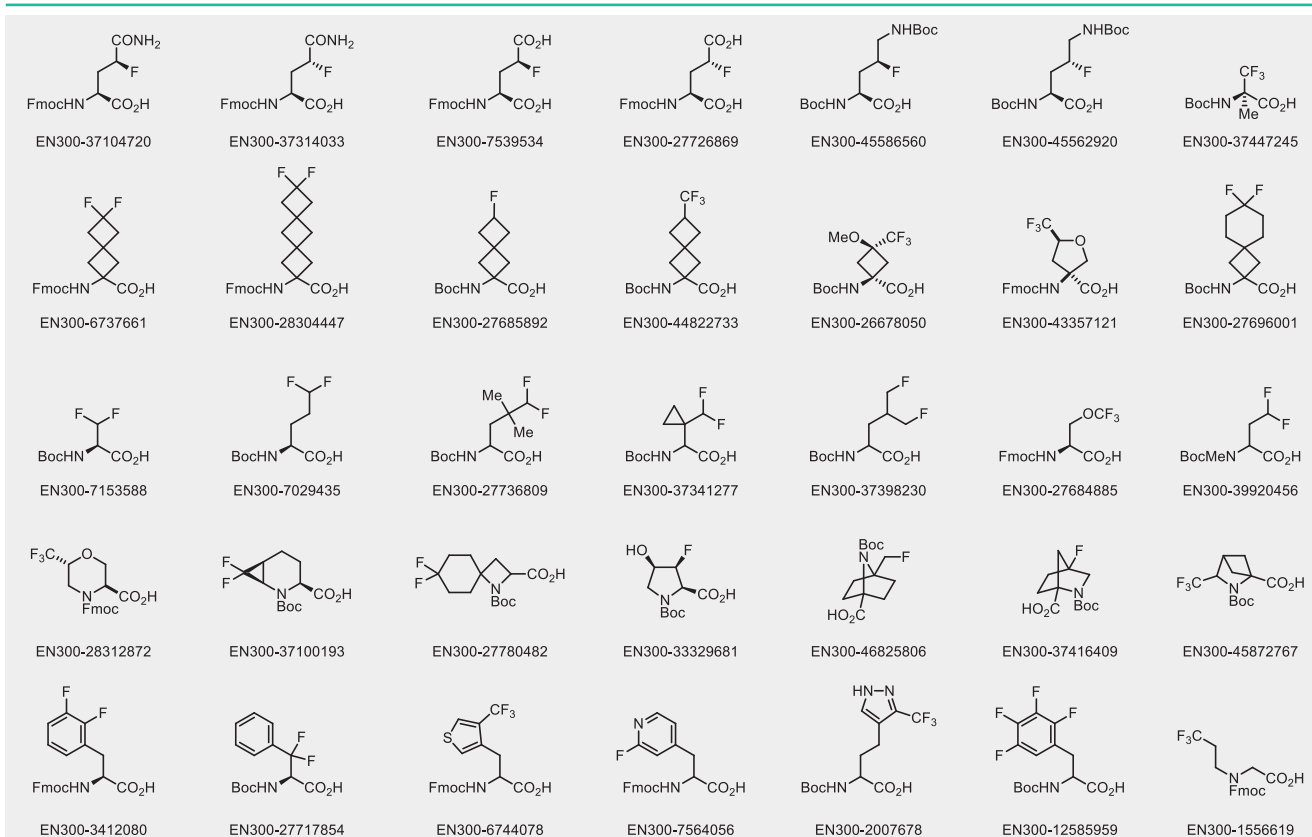
Cell 2021, 184, 521



human γ -secretase

PDB: 6lqg

We offer: over 100 fluorine-containing amino acids from stock on 5-10 gram scale.



References

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2. A. Berger et al. *Acc. Chem. Res.* **2017**, *50*, 2093.

3. J. Moscher et al. *Chem. Rev.* **2019**, *119*, 10718.
4. Q. Wang et al. *Pharmaceuticals* **2022**, *15*, 999.



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