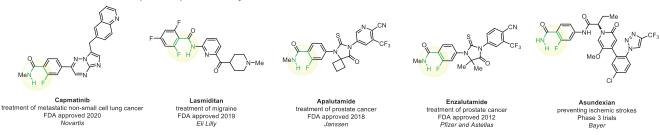
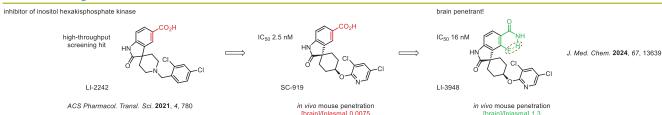
# ortho-Fluorine for **Enhanced Permeability**

#### Introduction

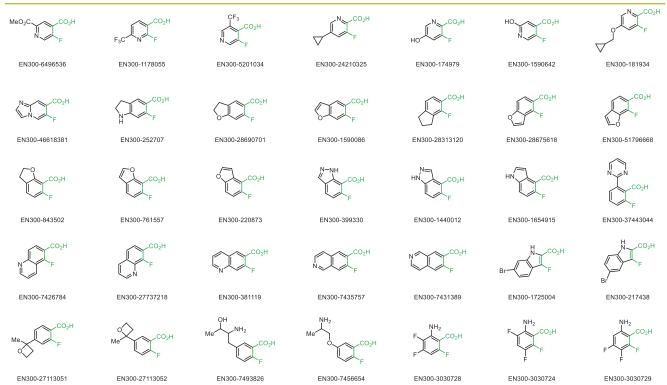
Aromatic amides represent a standard and robust molecular fragment in drugs. However, their high polarity often poses a problem, reducing bioavailability.1 Incorporation of a fluorine atom in the vicinity of the amide enables temporary masking of the amide polarity through intramolecular hydrogen bonding, helping to improve pharmacokinetic features, especially permeability across membranes.<sup>2-4</sup> Discover Enamines's ortho-fluoro acids suitable for the synthesis of complex ortho-fluoroamides with improved permeability.



## **Case study**



### We offer: over 1,000 ortho-fluoro acids from stock on 5-10 gram scale.



#### References

1. S. Kumari et al. J. Med. Chem. 2020, 63, 12290.

2. J. Scott et al. J. Med. Chem. 2023, 66, 2918.

3. T. Heitmann et al. J. Med. Chem. 2024, 67, 13639.

4. X.-Y. Zhao et al. J. Med. Chem. 2025, 68, 11365.



