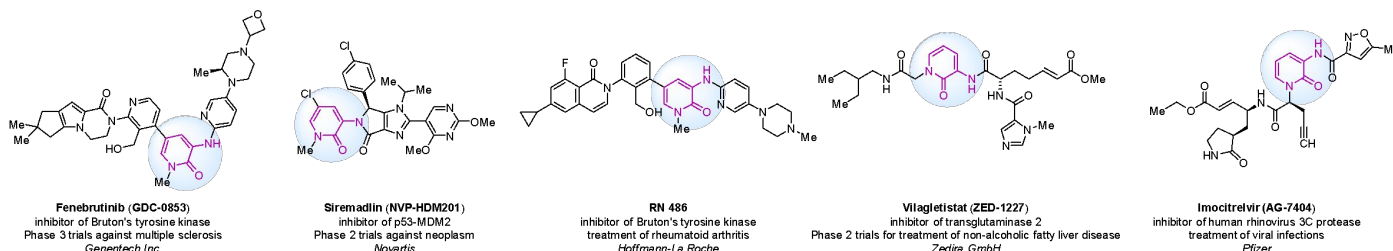


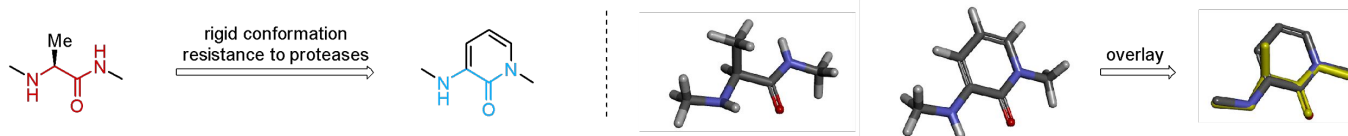
Aminopyridinone as an Amide Surrogate

Introduction

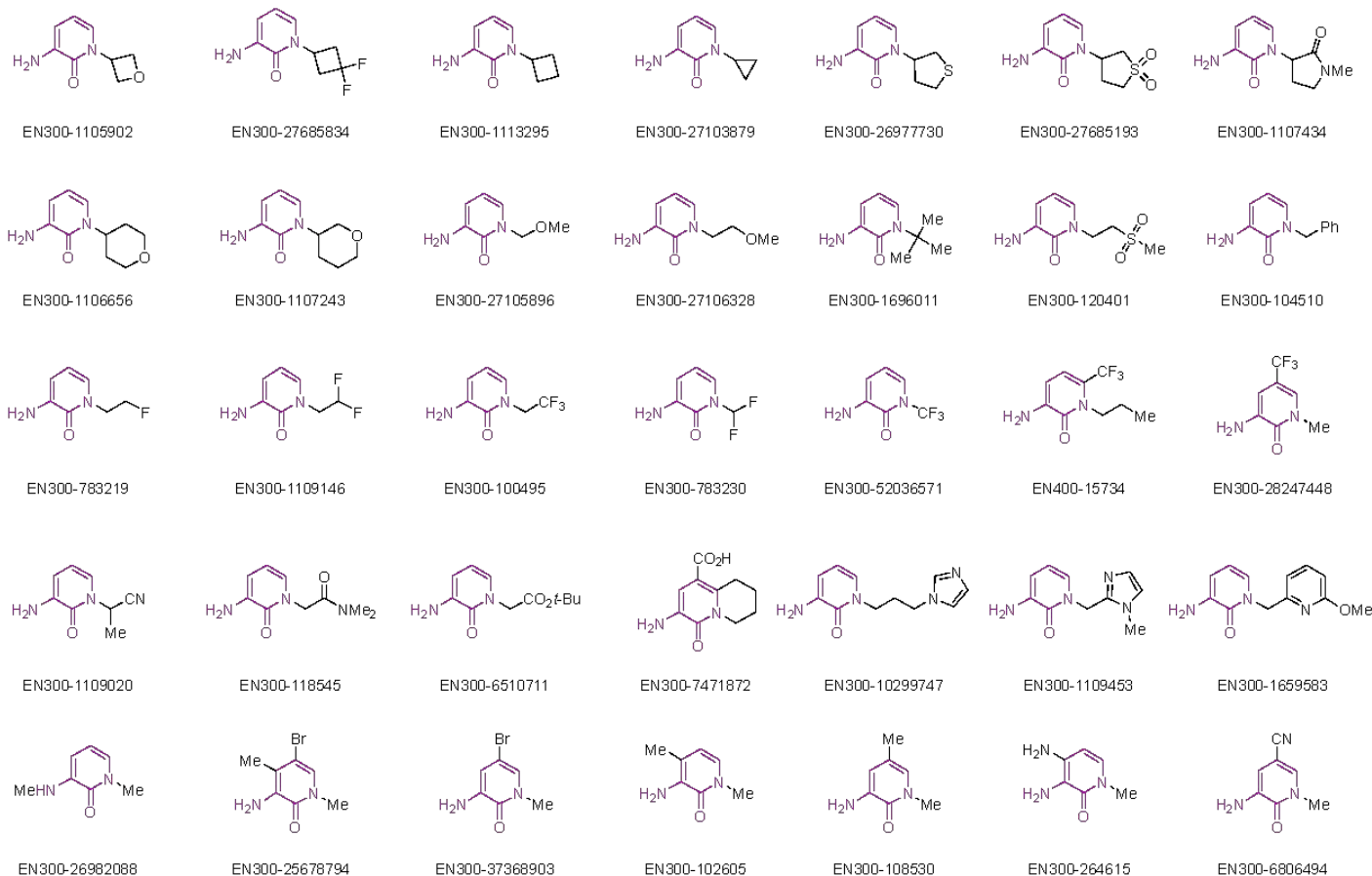
The amide bond is a ubiquitous structural motif found in many medicinal compounds and structural hits. Replacing it with isosteres can enhance resistance to proteases, thereby improving the substance's exposure and efficacy after administration.¹ 3-Aminopyridin-2(1H)-one is a heterocyclic fragment that mimics the amide bond formed by amino acids, thus making it a promising isostere. This fragment is present in a range of bioactive compounds, including several drugs currently in clinical trials and a number of recently developed lead molecules.²⁻⁴



Concept



We offer: over 50 3-Aminopyridinones from stock on 5-10 gram scale.



References

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3. C. Schüß et al. *J. Med. Chem.* **2023**, *66*, 8745.
4. Y. Li et al. *J. Med. Chem.* **2024**, *67*, 2712.



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