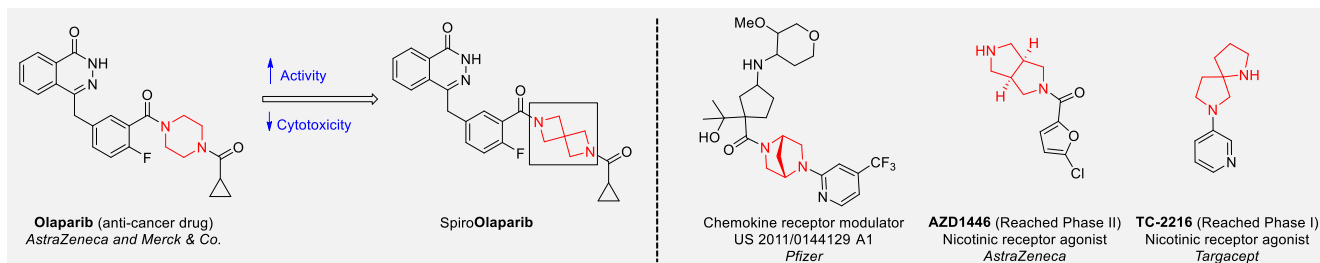


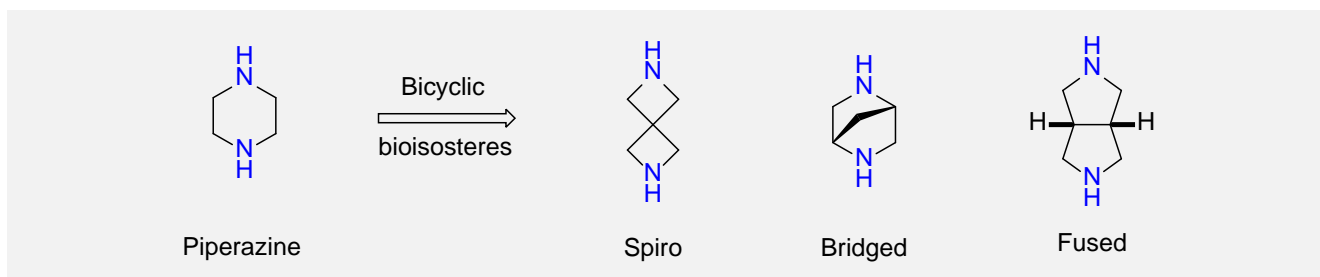
Piperazine Bioisosteres for Drug Design

Introduction

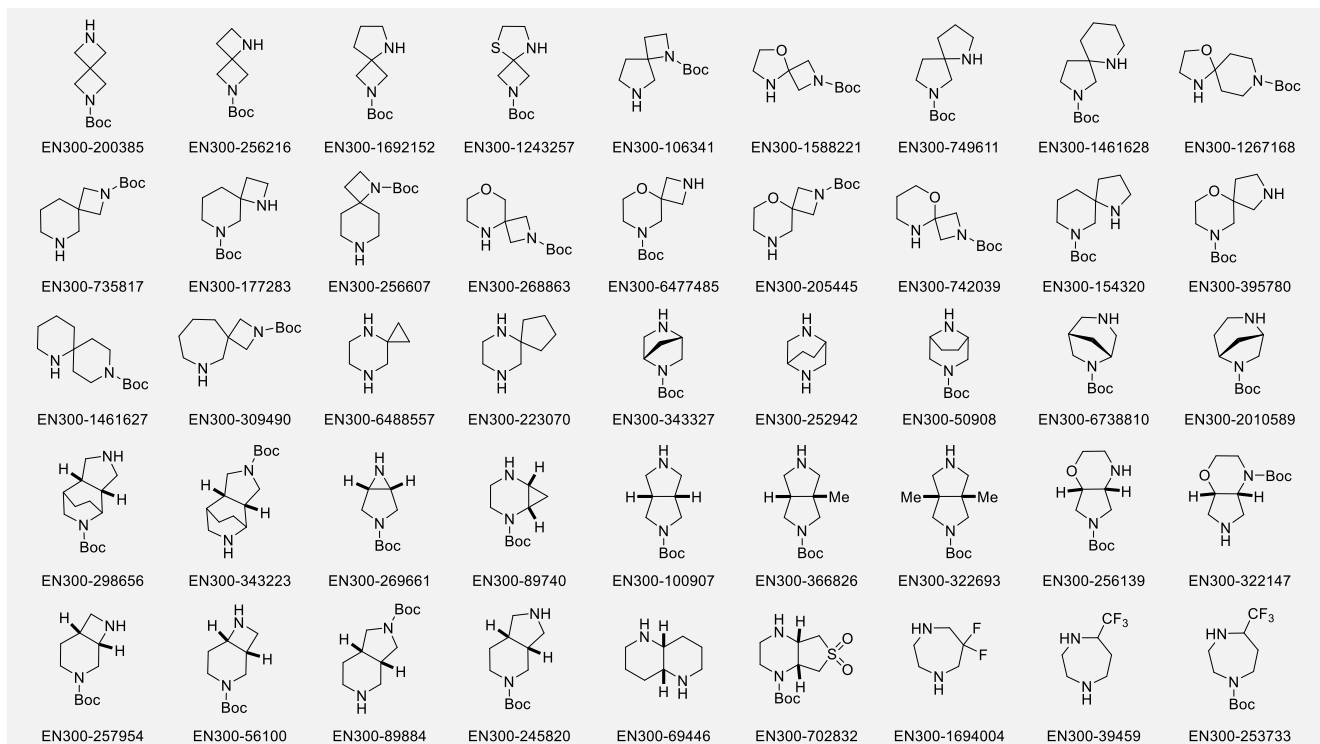
More than 100 FDA-approved drugs contain the piperazine moiety.¹ Piperazine-based analogues may advantageously alter important pharmacokinetic properties when grafted onto molecular scaffolds.²⁻⁵ In 2018, chemists showed that replacing a piperazine ring in the drug Olaparib with the spirodiamine analogue beneficially affected activity and reduced cytotoxicity of the parent compound.⁶ Herein we have designed and synthesized a library of piperazine analogues for drug design.



Design



We offer >100 unique piperazine analogues on a 5-50 g scale from stock.



References

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4. B. Chalyk et al. *Eur. J. Org. Chem.* **2017**, 31, 4530.

5. A. Kirichok et al. *Chem. Eur. J.* **2018**, 24, 5444.
6. S. W. Reilly et al. *J. Med. Chem.* **2018**, 61, 5367.



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