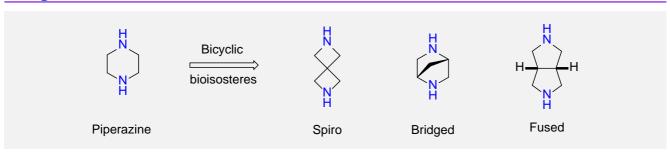
Piperazine Bioisosteres for Drug Design

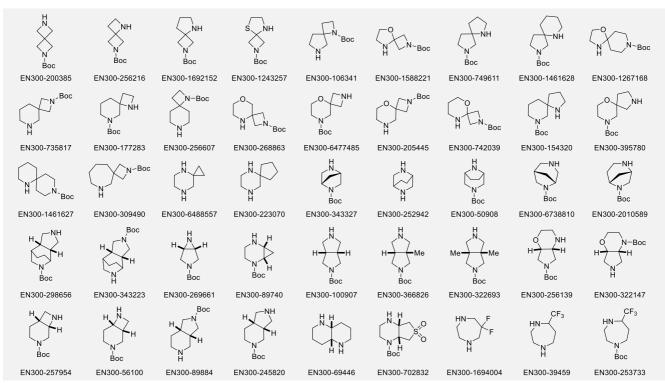
Introduction

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

- www.drugbank.ca
 J. A. Burkhard et al. ANIE. 2010, 49, 3524.
- 3. B. Chalyk et al. Chem. Eur. J. 2017, 23, 16782.
- 4. B. Chalyk et al. Eur. J. Org. Chem. 2017, 31, 4530.
- A. Kirichok et al. Chem. Eur. J. 2018, 24, 5444.
 S. W. Reilly et al. J. Med. Chem. 2018, 61, 5367.

