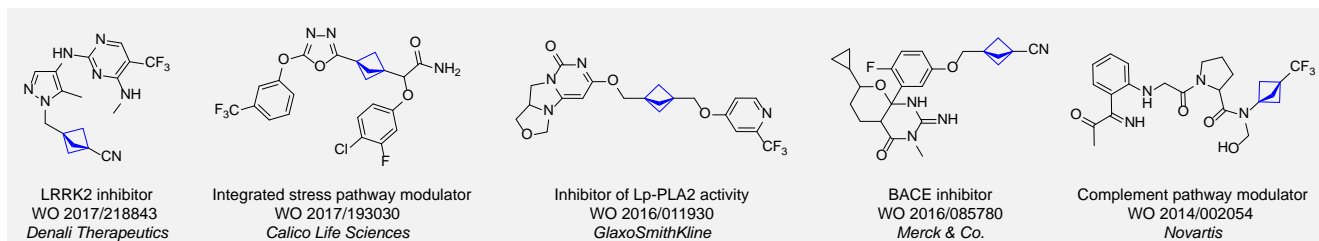


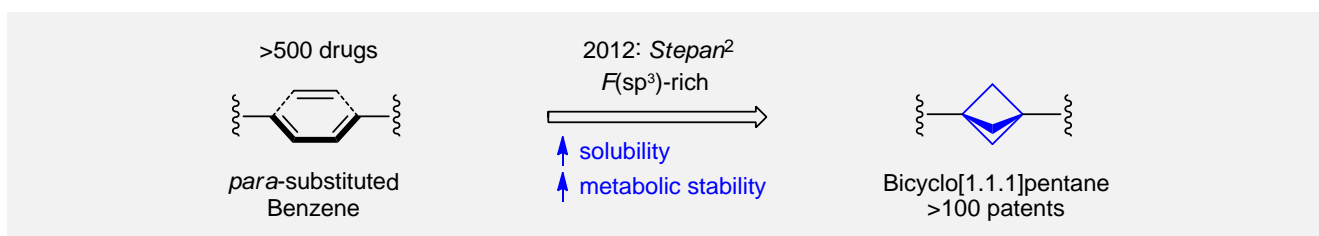
Saturated Bioisosteres of *para*-substituted Benzenes

Introduction

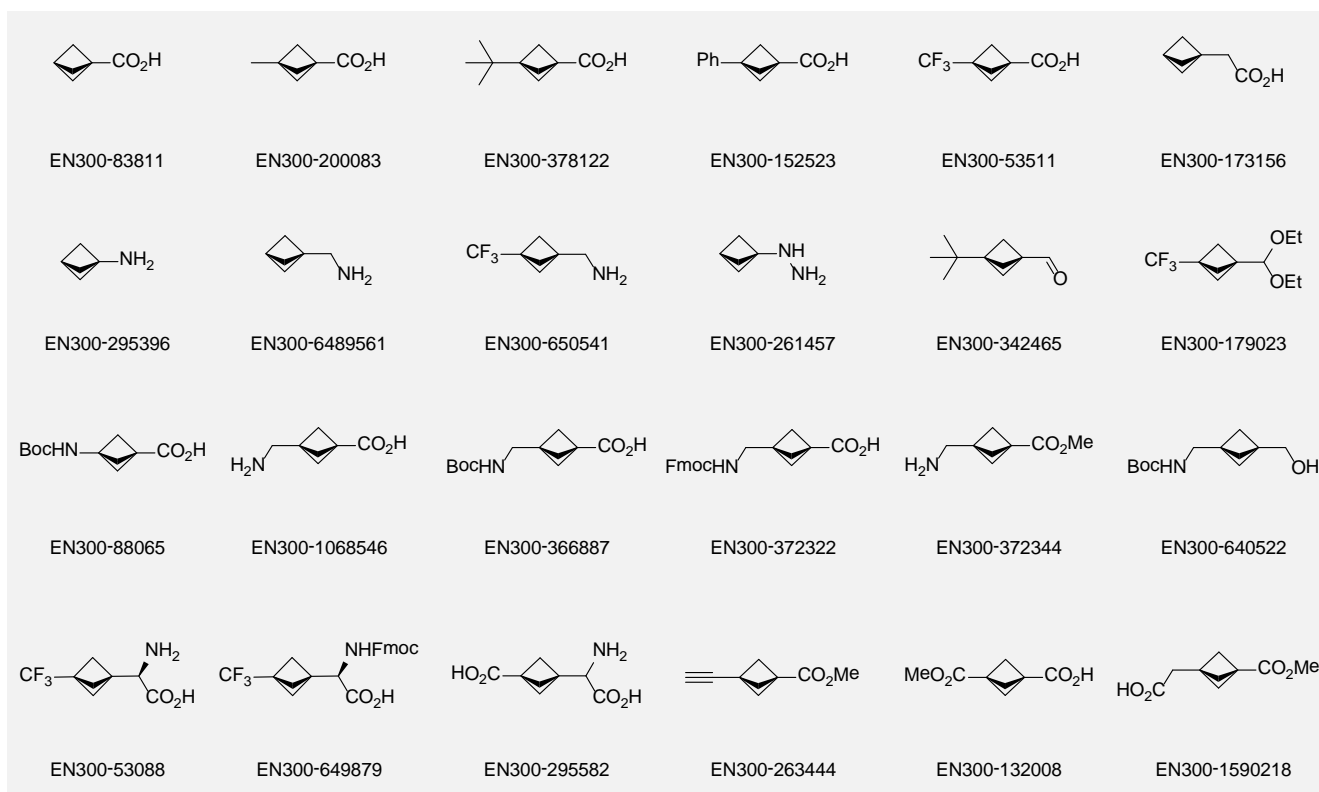
The residue of benzene comprises to the structure of more than 500 FDA-approved drugs.¹ In 2012, Stepan and coworkers showed that bicyclo[1.1.1]pentane skeleton could act as a saturated "nonclassical phenyl ring bioisostere" in the design of a γ -secretase inhibitor.² Since then, the core of bicyclo[1.1.1]pentane is often used in the design of analogues of natural compounds,³ peptide studies,^{4,5} medicinal chemistry,^{6,7} and supramolecular chemistry.⁸ Herein we have designed and synthesized a library of saturated mimics of the *para*-benzene ring for drug design.



Design



We offer



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