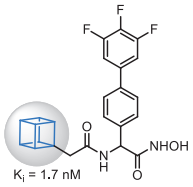
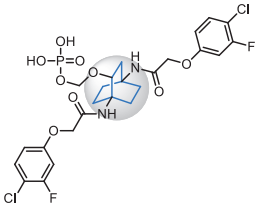
3D-Shaped Scaffolds

Introduction

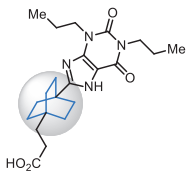
Cyclic molecular skeletons are widely applied in the construction of medicinal molecules due to their ability to occupy binding pockets and impose conformational restrictions. Among these structures, symmetric forms like cubane and adamantane have been prevalent. In exploring their creative potential, Enamine chemists have prepared a panel of non-classical 3D-shaped cyclic scaffolds capable of occupying intermediate molecular volumes and lipophilicity values.[1-3]



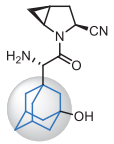
inhibitor of *Plasmodium vivax* metalloaminopeptidase
J. Med. Chem. **2019**, *62*, 622



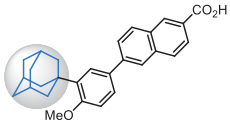
Fosigotifator
activator of initiation factor 2
Phase 2-3 trials against amyotrophic lateral sclerosis
AbbVie



Tonapofylline
antagonist of A1 adenosine receptors
Phase 3 trials against congestive heart failure
Biogen

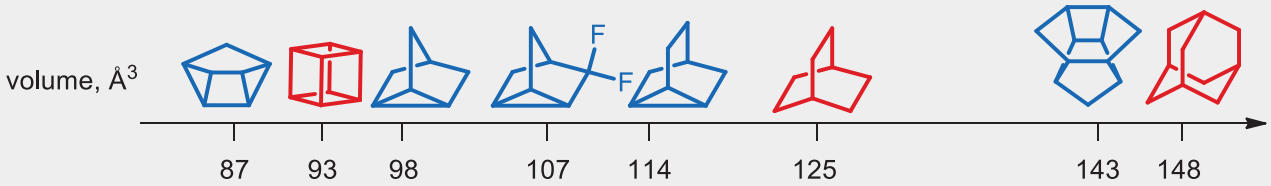


Saxagliptin
dipeptidyl peptidase-4 inhibitor
approved against type 2 diabetes
AstraZeneca

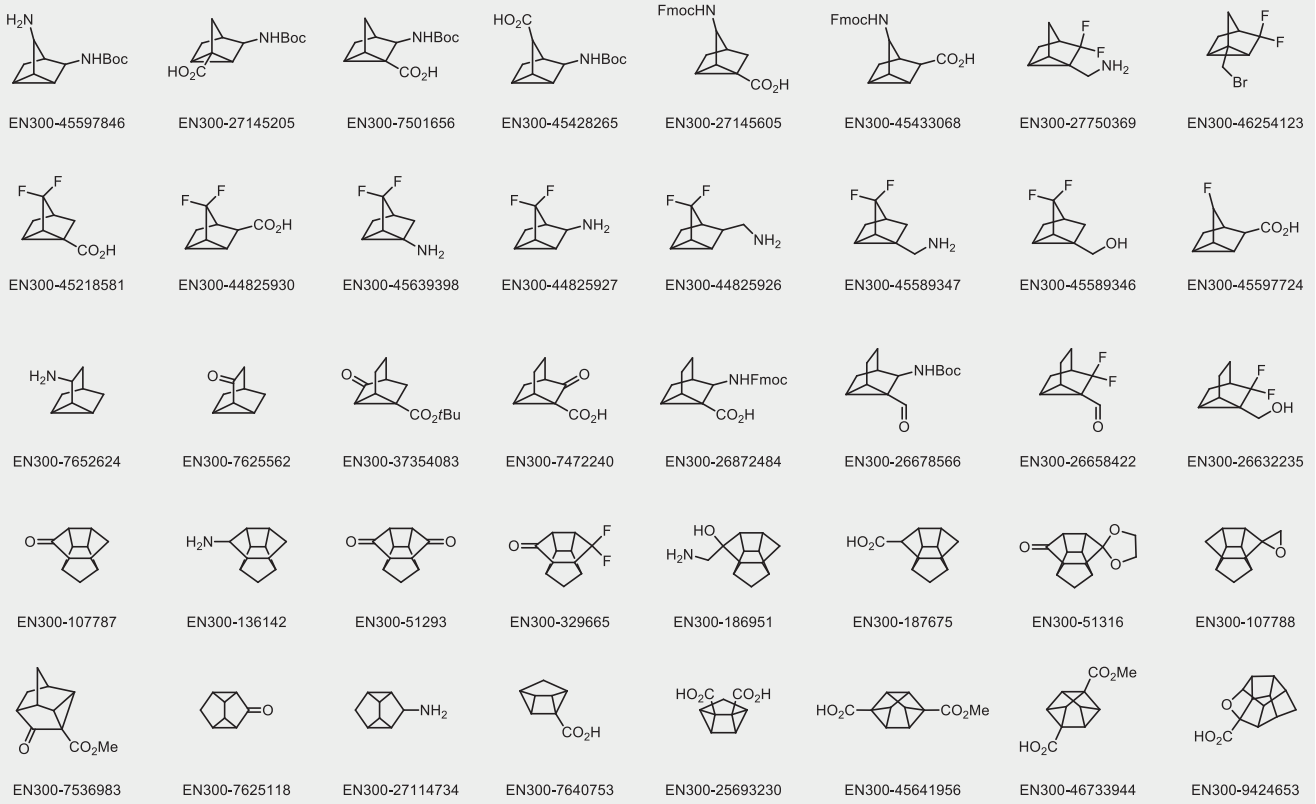


Adapalene
binds to nuclear retinoic acid receptors
approved for topical treatment of acne
Galderma

Concept



We offer: over 50 non-classical 3D-shaped compounds from stock on 5-10 gram scale.



References

1. K. Biegasiewicz *et al. Chem. Rev.* **2015**, *115*, 6719.
2. L. Wanka *et al. Chem. Rev.* **2013**, *113*, 3516.
3. N. Vinh *et al. J. Med. Chem.* **2019**, *62*, 622.

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