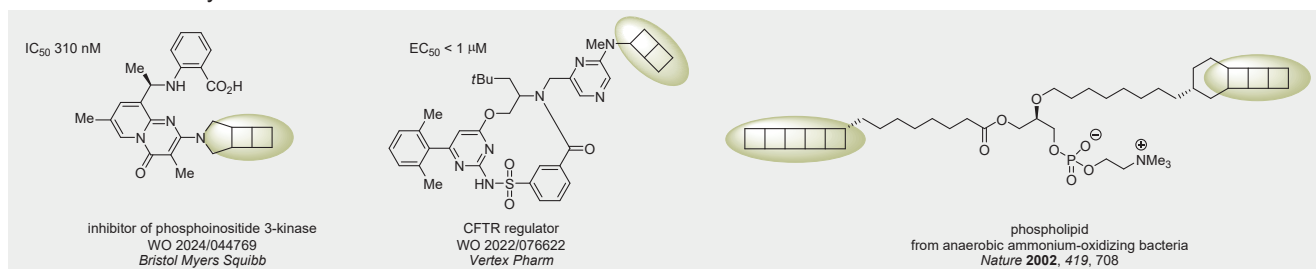


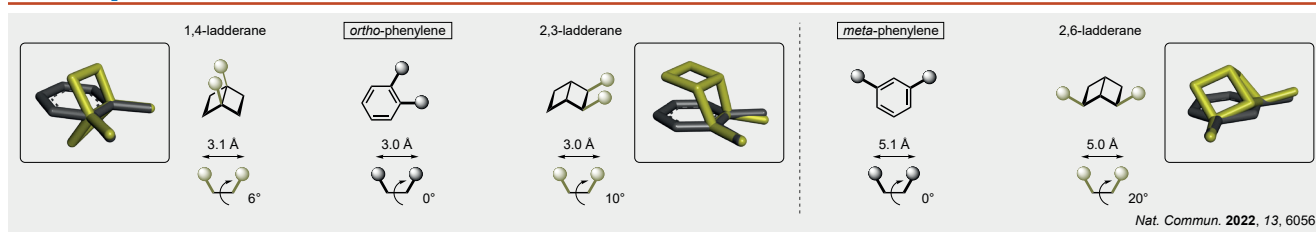
Ladderanes for Medicinal Chemistry

Introduction

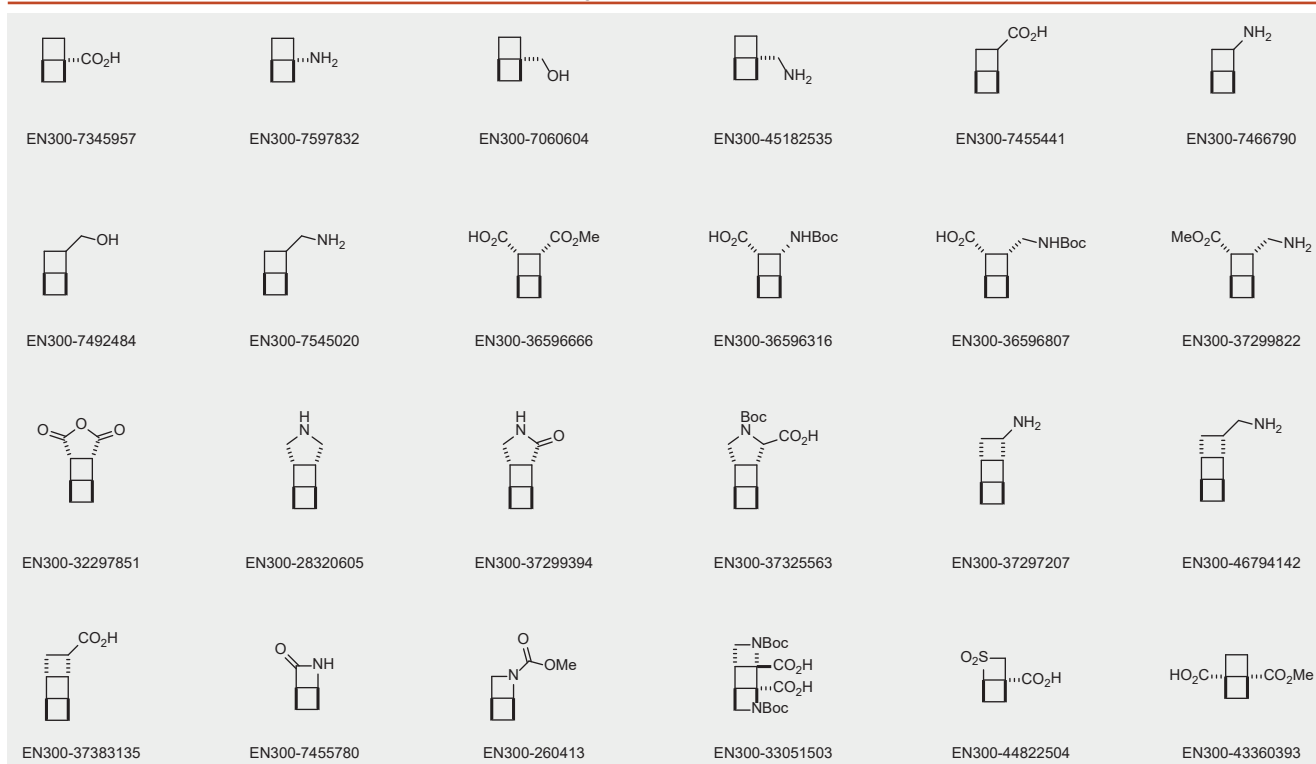
Ladderanes occur naturally in the lipids of anaerobic ammonium-oxidizing bacteria.^{1,2} Their potential in medicinal chemistry was only recently realized. Mono-substituted ladderane serves as an excellent 3D-shaped scaffold, occupying a molecular volume close to that of morpholine ([2]-ladderane) or azepane ([3]-ladderane). Disubstituted ladderanes demonstrate an isosteric relationship with *ortho*- and *meta*-substituted aromatics, showing remarkably close geometric resemblance.³ Our team of chemists has prepared a series of unique ladderanes and their heterocyclic analogs for exploring their potential in medicinal chemistry.



Concept



We offer: over 20 ladderanes from stock on 5-10 gram scale.



References

1. J. Sinninghe Damsté et al. *Nature* 2002, 419, 708.
2. E. Hancock and M. Brown. *Chem. Eur. J.* 2021, 27, 565.

3. R. Epplin et al. *Nat. Commun.* 2022, 13, 6056.



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