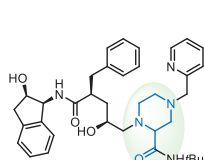


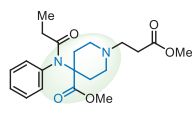
Cationic Amino Acids

Introduction

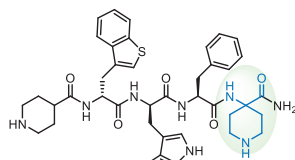
Cationic amino acids enhance the transport and binding of peptide structures to proteins and serve as molecular scaffolds in small molecule design. Their analogues impose conformational restrictions onto otherwise flexible side-chains. In addition, they help modulate the electronic properties of the amino groups and their pK_a values.¹⁻⁴ Enamine library of cationic amino acids is exceptionally rich, offering various skeletons and protecting group patterns.



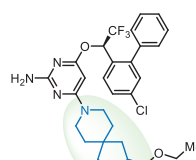
Indinavir
HIV protease inhibitor
approved for treatment of HIV
Merck



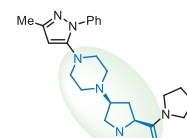
Remifentanyl
opioid analgesic
approved as anesthetic
Glaxo Wellcome



Relamorelin
ghrelin/growth hormone agonist
Phase 3 trials
Allergan

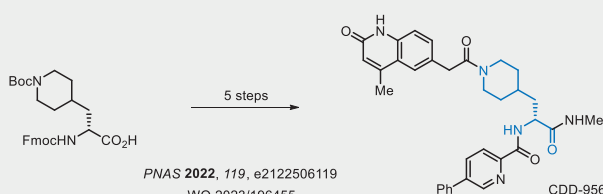


Ethyl rodatristat
tryptophan hydroxylase 1 inhibitor
Phase 2 trials
Sumitomo



Teneeligiptin
dipeptidyl peptidase-4 inhibitor
approved in Japan as antihyperglycemic
Mitsubishi

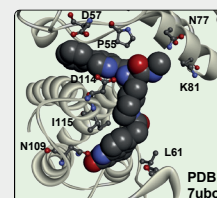
Case study



PNAS 2022, 119, e2122506119
WO 2023/196455

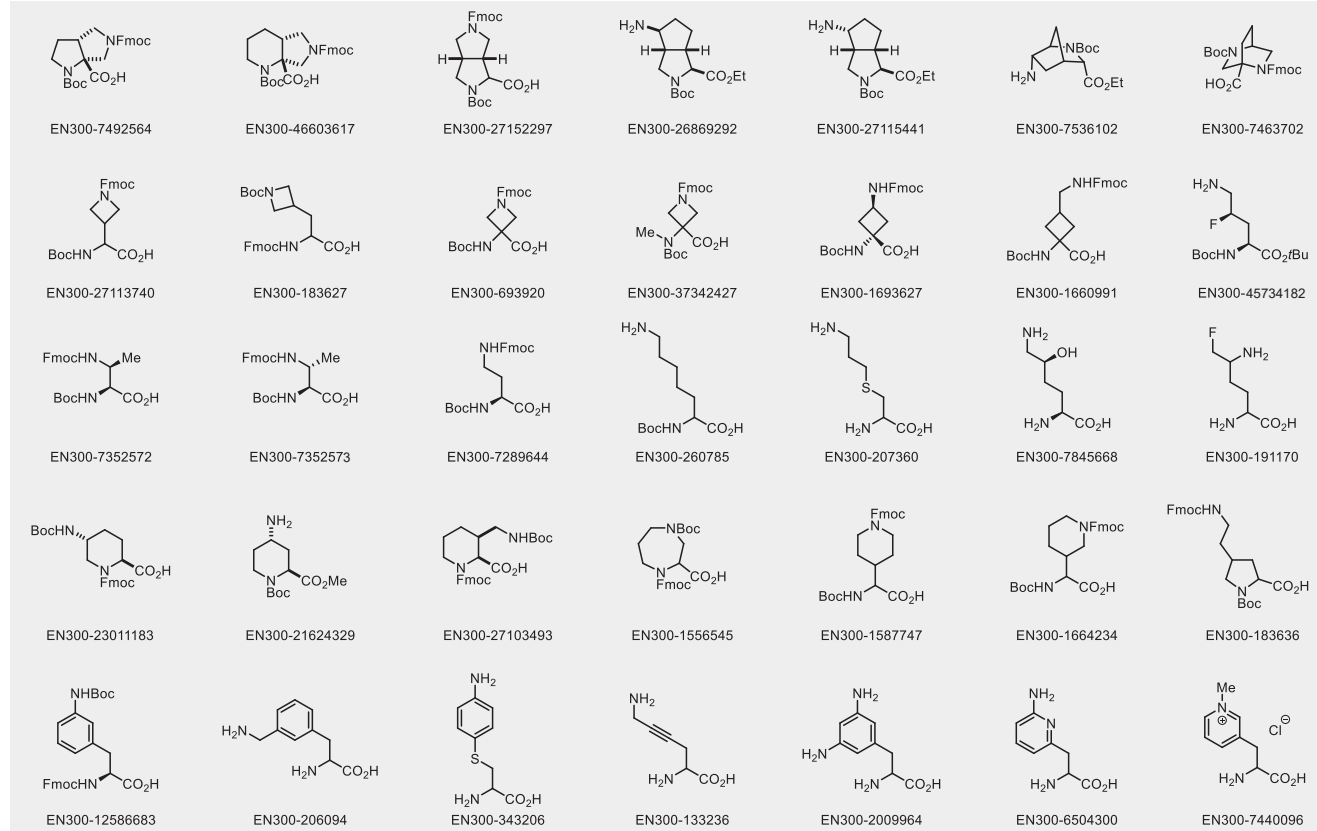
BRD4 bromodomain 1
IC₅₀ 7.1 nM

BRD4 bromodomain 2
IC₅₀ 16.7 nM



BRD4 bromodomain 1 of human
PDB: 7ubo

We offer: over 100 cationic amino acids from stock on 5-10 gram scale.



References

1. M. Blaskovich. *J. Med. Chem.* **2016**, 59, 10807.
2. N. Teno *et al.* *ACS Med. Chem. Lett.* **2021**, 12, 420.

3. D. Radchenko *et al.* *Tetrahedron.* **2013**, 69, 505.
4. K. van Holsbeeck *et al.* *Org. Lett.* **2023**, 25, 130.



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