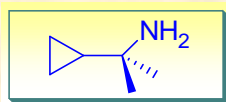
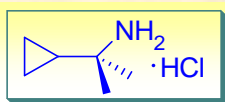


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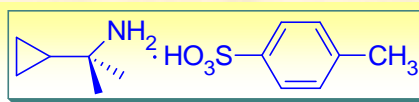
New Product Offering



CD-DMCP-01
CAS 172947-13-6



CD-DMCP-02
CAS 17397-13-6



CD-DMCP-03
CAS 172947-14-7

Product ID: CD-DMCP-01

CAS Number: 172947-13-6

Chemical name: α,α -Dimethyl cyclopropanemethanamine (Dmcp-NH₂).

Synonym(s): 2-Cyclopropylpropan-2-amine; 2-Cyclopropyl-2-propylamine; (1-cyclopropyl-1-methylethyl)amine; dimethylcyclopropylmethylamine; dimethylcyclopropylcarbinylamine,

Chemical Formula: C₆H₁₃N

Molecular Weight: 99.1741

Product ID: CD-DMCP-02

CAS Number: 17397-13-6

Chemical name: α,α -Dimethyl cyclopropanemethanamine hydrochloride (Dmcp-NH₂·HCl).

Chemical Formula: C₆H₁₄ClN

Molecular Weight: 135.6351

Product ID: CD-DMCP-03

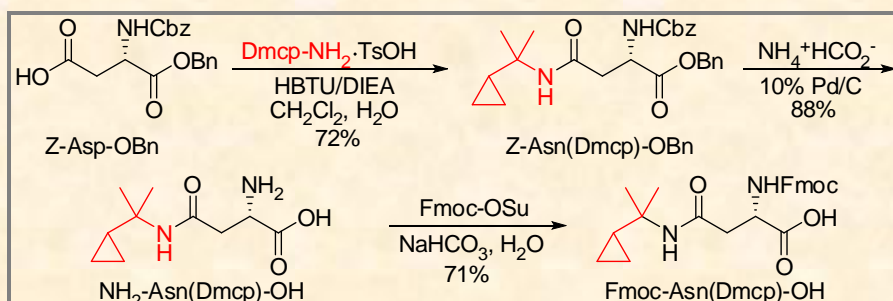
CAS Number: 172947-14-7

Chemical name: α,α -Dimethyl cyclopropanemethanamine *p*-toluenesulfonate salt (Dmcp-NH₂·TsOH).

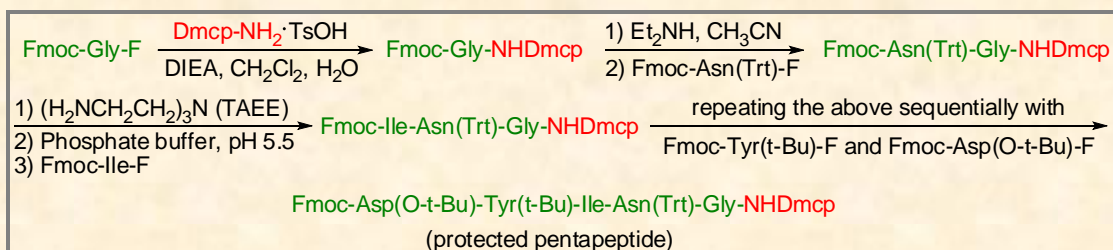
Chemical Formula: C₁₃H₂₁NO₃S

Molecular Weight: 271.3757

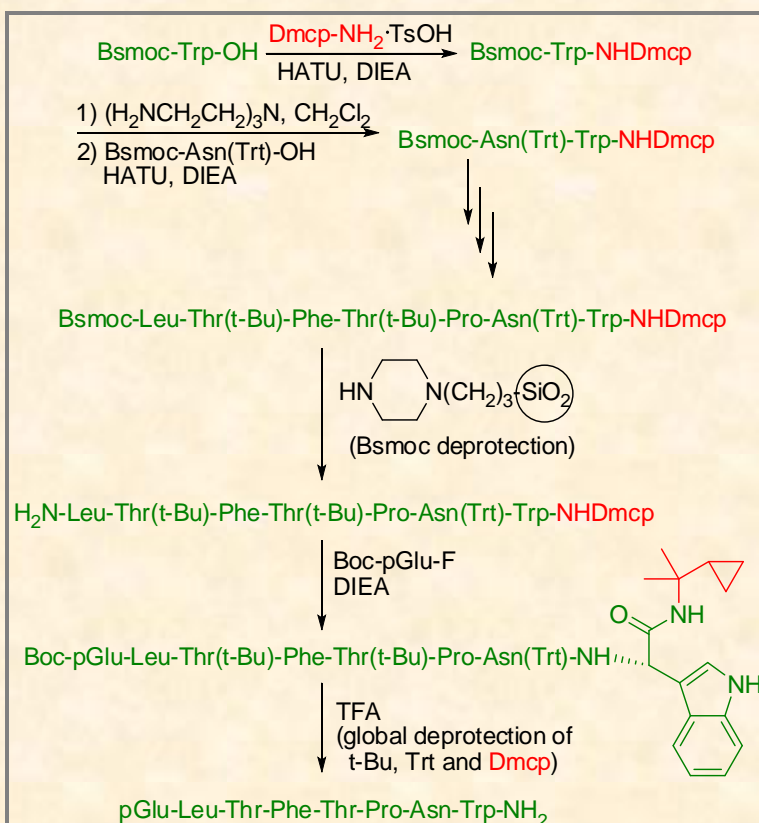
Utility in peptide chemistry. Dmcp-NH₂ is widely used as a reagent for the -CO₂H side chain protection as an acid cleavable amide group due to the ease with which a cyclopropylcarbinyl cation can be formed. The Dmcp group can be easily introduced under standard amide coupling conditions and stable toward base and catalytic hydrogenolysis during peptide synthesis as demonstrated by the formation of for the Dmcp-protected aspartic acid derivative shown below (*J. Org. Chem.* **1995**, *60*, 7718.):



An advance of using the Dmcp group is its ability to increase the solubility of a growing peptide during solution phase short peptide synthesis, as exemplified by the rapidly construction of the protected peptide Fmoc-Asp(O-tert-Bu)-Tyr(tert-Bu)-Ile-Asn(Trt)-Gly-NHDMcp:



In conjunction with Bsmoc chemistry for solution phase peptide synthesis, the Dmcp group was used for the C-terminal protection of Trp during the synthesis of the fully deprotected octapeptide pGlu-Leu-Thr-Phe-Thr-Pro-Asn-Trp-NH₂ (*J. Org. Chem.* **1999**, 64, 4324.).



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