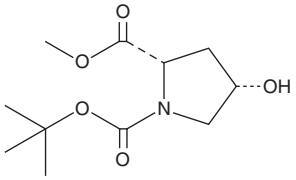
PRODUCT INFORMATION

Boc-*cis*-4-hydroxy L-Proline methyl ester

Item No. 46335

CAS Registry No.: 102195-79-9
Formal Name: (2S,4S)-4-hydroxy-1,2-pyrrolidinedicarboxylic acid, 1-(1,1-dimethylethyl) 2-methyl ester
Synonym: Boc-*cis*-L-4-hydroxyproline methyl ester
MF: $C_{11}H_{19}NO_5$
FW: 245.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Boc-*cis*-4-hydroxy L-proline methyl ester is supplied as a solid. A stock solution may be made by dissolving the Boc-*cis*-4-hydroxy L-proline methyl ester in the solvent of choice, which should be purged with an inert gas. Boc-*cis*-4-hydroxy L-proline methyl ester is sparingly soluble (1-10 mg/ml) in ethanol and DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of Boc-*cis*-4-hydroxy L-proline methyl ester can be prepared by directly dissolving the solid in aqueous buffers. Boc-*cis*-4-hydroxy L-proline methyl ester is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Boc-*cis*-4-hydroxy L-proline methyl ester is a building block.[1-3] It has been used in the synthesis of N-formyl-Met-Leu-Phe (fMLF; Item No. 21495) derivatives and to confirm the stereochemical integrity of dipeptidyl peptidase 4 (DPP-4) inhibitors synthesized using Boc-*trans*-4-hydroxy-L-proline methyl ester.

References

1. Mollica, A., Paradisi, M.P., Varani, K., *et al.* Chemotactic peptides: fMLF-OMe analogues incorporating proline-methionine chimeras as N-terminal residue. *Bioorg. Med. Chem.* **14(7),** 2253-2265 (2006).
2. Kumar, N., Devineni, S.R., Aggile, K., *et al.* Facile new industrial process for synthesis of teneligliptin through new intermediates and its optimization with control of impurities. *Res. Chem. Intermed.* **44,** 567-584 (2018).
3. Lafrance, D., and Caron, S. New synthetic route to a dipeptidyl peptidase-4 inhibitor. *Org. Process Res. Dev.* **16,** 409-414 (2012).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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