

## Product Data Sheet

Product Name: Fmoc-Hyp(tBu)-OH

Cat. No.: GA10459

### Chemical Properties

Cas. No. 122996-47-8

Chemical Name (2S)-1-(9H-fluoren-9-ylmethoxycarbonyl)-4-[(2-methylpropan-2-yl)oxy]pyrrolidine-2-carboxylic acid

SMILES CC(C)(C)OC1CC(N(C1)C(=O)OCC2C3=CC=CC=C3C4=CC=CC=C24)C(=O)O

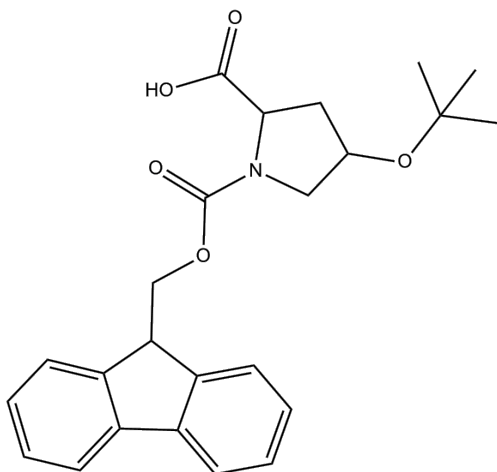
Formula  $C_{24}H_{27}NO_5$  M.Wt 409

Solubility 50 mg/mL in DMSO (ultrasonic and warming and heat to 60°C) Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Fmoc-Hyp(tBu)-OH is a derivative of hydroxyproline and is commonly used as a building block in peptide synthesis [1]. Fmoc-Hyp(tBu)-OH can be used in the solid-phase peptide synthesis (SPPS) process to prepare glycopeptides with long peptide chains [2]. Fmoc-Hyp(tBu)-OH can be used in the

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stepwise chain elongation method to synthesize heterotrimeric collagen peptides containing functional epitopes<sup>[3]</sup>.

### References:

- [1] Shoulders M D, Kotch F W, Choudhary A, et al. The aberrance of the 4 S diastereomer of 4-hydroxyproline[J]. Journal of the American Chemical Society, 2010, 132(31): 10857-10865.
- [2] van de Sande J W, Albada B. Chemical synthesis of glycopeptides containing L-arabinosylated hydroxyproline and sulfated tyrosine[J]. Organic Letters, 2023, 25(11): 1907-1911.
- [3] Ottl J, Jürgen Musiol H, Moroder L. Heterotrimeric collagen peptides containing functional epitopes. Synthesis of single-stranded collagen type I peptides related to the collagenase cleavage site[J]. Journal of Peptide Science: An Official Publication of the European Peptide Society, 1999, 5(2): 103-110.

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