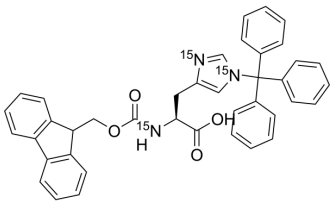
Fmoc-His(Trt)-OH-$^{15}N_3$

Cat. No.:	HY-W010712S1
CAS No.:	1217696-12-2
Molecular Formula:	$C_{40}H_{33}{}^{15}N_3O_4$
Molecular Weight:	622.69
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fmoc-His(Trt)-OH-$^{15}N_3$ is the ^{15}N labeled Fmoc-His(Trt)-OH[1]. Fmoc-His(Trt)-OH has trityl (Trt) group to protect the side-chain of His. Fmoc-His(Trt)-OH has Fmoc group to protect -αNH2. Fmoc-His(Trt)-OH can be used for solid phase synthesis of peptides, providing protection against racemization and by-product formation[2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. Yi Y, et, al. Suppression of Simultaneous Fmoc-His(Trt)-OH Racemization and Nα-DIC-Endcapping in Solid-Phase Peptide Synthesis through Design of Experiments and Its Implication for an Amino Acid Activation Strategy in Peptide Synthesis. Org. Process Res. Dev. 2022 Jun 27.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA