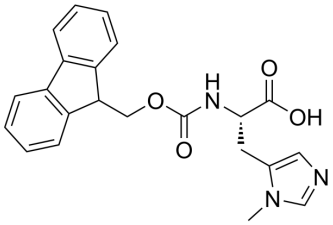
Fmoc-His(3-Me)-OH

Cat. No.:	HY-W111226
CAS No.:	252049-16-4
Molecular Formula:	$C_{22}H_{21}N_3O_4$
Molecular Weight:	391.42
Target:	Amyloid-β; Amino Acid Derivatives
Pathway:	Neuronal Signaling; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description

Fmoc-His(3-Me)OH derives Histidine-associating compounds with biological activity. Fmoc-His(3-Me)OH, with Fmoc-citrulline-OH, Fmoc-His(1-Me)-OH together, forms tri-peptides and shows vasodilating effect with EC_{50}s of 2.7-4.7 mM in 1.0 mM Phenylephrine (PE)-contracted aorta rings. Fmoc-His(3-Me)OH (resin) also makes Methyl-His-Gly-Lys (His(3-Me)-Gly-Lys), thus acts as an $[Ca^{2+}]_i$ inhibitor. Fmoc-His(3-Me)OH methylates NAHIS02, making it unable to block the Alzheimer's Aβ channel[1][2][3].

REFERENCES

[1]. Tanaka M, et al. His-Arg-Trp potently attenuates contracted tension of thoracic aorta of Sprague-Dawley rats through the suppression of extracellular Ca2+ influx. Peptides. 2009 Aug;30(8):1502-7.

[2]. Kumrungsee T, et al. Identification of peptides from soybean protein, glycinin, possessing suppression of intracellular Ca2+ concentration in vascular smooth muscle cells. Food Chem. 2014;152:218-24.

[3]. Arispe N, et al. Efficiency of histidine-associating compounds for blocking the alzheimer's Abeta channel activity and cytotoxicity. Biophys J. 2008 Nov 15;95(10):4879-89.

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