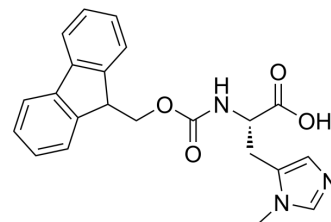


Fmoc-His(3-Me)-OH

Cat. No.:	HY-W111226		
CAS No.:	252049-16-4		
Molecular Formula:	C ₂₂ H ₂₁ N ₃ O 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 EC₅₀s 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 [Ca²⁺]_i inhibitor. Fmoc-His(3-Me)OH methylates NAHS02, 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 Aβ channel activity and cytotoxicity. Biophys J. 2008 Nov 15;95(10):4879-89.

Caution: Product has not been fully validated for medical applications. For research use only.

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