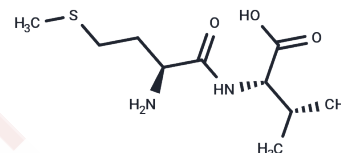


H-Met-Val-OH

Chemical Properties

CAS No. :	14486-13-6
Formula:	C ₁₀ H ₂₀ N ₂ O ₃ S
Molecular Weight:	248.34
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	H-Met-Val-OH is a dipeptide composed of an N-terminal methionine and a C-terminal valine residue that demonstrates inhibitory effects on recombinant flavin-containing monooxygenases FMO1 and FMO3. H-Met-Val-OH also shows potential in promoting neurite outgrowth, suggesting its relevance in neuroregenerative and enzymatic modulation studies involving FMO-catalyzed metabolic pathways.
Targets(IC50)	Amino Acids and Derivatives, FMO
In vitro	H-Met-Val-OH can be oxidized by two Homo sapiens-derived flavin-containing monooxygenases (FMOs) expressed from cDNA, namely FMO3 and FMO1 [1]. In PC12 cell experiments, H-Met-Val-OH (0, 0.2, 2, 20, and 200 μ M; 24 h) exhibited a synergistic effect with dibutyryl cyclic AMP (Bt2cAMP) (0.5 mM), jointly promoting neurite outgrowth [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0267 mL	20.1337 mL	40.2674 mL
5 mM	0.8053 mL	4.0267 mL	8.0535 mL
10 mM	0.4027 mL	2.0134 mL	4.0267 mL
50 mM	0.0805 mL	0.4027 mL	0.8053 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Elfarrar AA, et al. Potential roles of flavin-containing monooxygenases in sulfoxidation reactions of L-methionine, N-acetyl-L-methionine and peptides containing L-methionine. *Biochim Biophys Acta*. 2005 Jan 17;1703(2):183-9.

Koga T, et al. Neurite Outgrowth-Promoting Compounds from Cockscomb Hydrolysate. *Nutrients*. 2022 Mar 29;14(7):1422.

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