

α -MSH

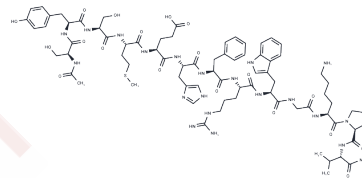
Chemical Properties

CAS No. : 581-05-5

Formula: C77H109N21O19S

Molecular Weight: 1664.89

Storage: Keep away from moisture, Store at low temperature,
Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	α -MSH (MSH, amide) is amide stimulates melanocortin 1 receptor that results in the activation of adenylyl cyclase.
Targets(IC50)	Melanocortin Receptor, Adenylate cyclase

Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6006 mL	3.0032 mL	6.0064 mL
5 mM	0.1201 mL	0.6006 mL	1.2013 mL
10 mM	0.0601 mL	0.3003 mL	0.6006 mL
50 mM	0.012 mL	0.0601 mL	0.1201 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

- Jo H, et al. Synthesis and biological evaluation of caffeic acid derivatives as potent inhibitors of α -MSH-stimulated melanogenesis. *Bioorg Med Chem Lett*. 2017 Aug 1;27(15):3374-3377.
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- Liao X, Liu H, Li Y, et al. Dual Role of α -MSH in Colitis Progression: Mediating Neutrophil Differentiation via Bone Marrow. *Journal of Inflammation Research*. 2025: 2011-2029.
- Jo H, Choi M, Sim J, et al. Synthesis and Biological Evaluation of Caffeic Acid Derivatives as Potent Inhibitors of α -MSH-stimulated Melanogenesis[J]. *Bioorganic & Medicinal Chemistry Letters*, 2017:S0960894X17306133.
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