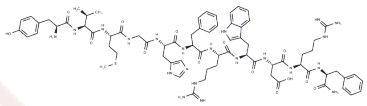
Data Sheet (Cat.No.TP1892)

γ1-MSH

Chemical Properties



CAS No. : 72629-65-3

Formula: C72H97N21O14S

Molecular Weight: 1512.76

Storage: Keep away from moisture
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	Endogenous melanocortin MC3 receptor agonist (pKi = 7.46) that displays ~ 40-fold selectivity over MC4. Increases the release of extracellular dopamine, which induces grooming and vertical activity (rearing) in rats. Exhibits hypertensive, tachycardic and short-term analgesic activity in vivo.
Targets(IC50)	Melanocortin Receptor

Solubility Information

Solubility	H2O: 2 mg/mL (1.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.661 mL	3.3052 mL	6.6104 mL
5 mM	0.1322 mL	0.661 mL	1.3221 mL
10 mM	0.0661 mL	0.3305 mL	0.661 mL
50 mM	0.0132 mL	0.0661 mL	0.1322 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

Versteeg et al (1998) Melanocortins and cardiovascular regulation. Eur.J.Pharmacol. 360 1 PMID:
Lindblom et al (1998) Autoradiographic discrimination of melanocortin receptors indicates that the MC3 subtype dominates in the medial rat brain. Brain Res. 810 161 PMID:
Jansone et al (2004) Opposite effects of γ1- and γ2-melanocyte stimulating hormone on regulation of the DArgic mesolimbic system in rats. Neurosci.Lett. 361 68 PMID:

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