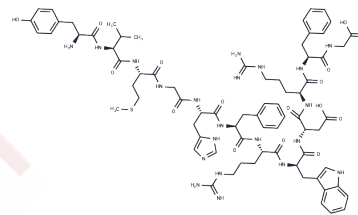


[D-Trp8]- γ -MSH

Chemical Properties

CAS No. :	321351-81-9
Formula:	C74H99N21O16S
Molecular Weight:	1570.79
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	[D-Trp8]- γ -MSH is a selective melanocortin 3 (MC3) receptor agonist with IC50 values of 6.7, 340, and 600 nM for human MC3, MC5, and MC4 receptors, respectively. [D-Trp8]- γ -MSH also exhibits anti-inflammatory efficacy.
Targets(IC50)	Melanocortin Receptor

Solubility Information

Solubility	H2O: 1 mg/mL (0.64 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	0.6366 mL	3.1831 mL	6.3662 mL
5 mM	0.1273 mL	0.6366 mL	1.2732 mL
10 mM	0.0637 mL	0.3183 mL	0.6366 mL
50 mM	0.0127 mL	0.0637 mL	0.1273 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

- Grieco et al (2000) D-amino acid scan of γ -melanocyte-stimulating hormone: importance of Trp8 on human MC3 receptor selectivity. J.Med.Chem. 43 4998 PMID:
- Getting et al (2006) [D-Trp8]- γ -Melanocyte-stimulating-hormone exhibits anti-inflammatory efficacy in mice bearing a nonfunctional MC1R (recessive yellow e/e mouse). Mol.Pharmacol. 70 1850 PMID:
- Patel et al (2010) Anti-inflammatory and antiosteoclastogenesis properties of endogenous melanocortin receptor type 3 in experimental arthritis. FASEB J. 24 4835 PMID:

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