

[D-Trp8]- γ -MSH acetate(321351-81-9 free base)

Chemical Properties

CAS No. :

Formula: C76H103N21O18S

Molecular Weight: 1630.82

YVMGHFRWDRFG(acetate salt)

Keep away from moisture

Storage: 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	[D-Trp8]- γ -MSH acetate(321351-81-9 free base) is a selective melanocortin 3 (MC3) receptor agonist (IC50 values are 6.7, 340 and 600 nM for human MC3, MC5 and MC4 receptors respectively) and displays anti-inflammatory efficacy.
Targets(IC50)	Melanocortin Receptor

Solubility Information

Solubility	H2O: Insoluble, DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6132 mL	3.0659 mL	6.1319 mL
5 mM	0.1226 mL	0.6132 mL	1.2264 mL
10 mM	0.0613 mL	0.3066 mL	0.6132 mL
50 mM	0.0123 mL	0.0613 mL	0.1226 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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