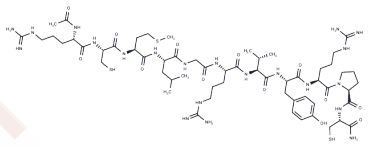
Data Sheet (Cat.No.T38450)

TargetMol

Ac-hMCH(6-16)-NH2

Chemical Properties



CAS No. : 1053601-50-5

Formula: C58H99N21O13S3

Molecular Weight: 1394.74

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	Ac-hMCH(6-16)-NH2 shows non-selective agonist activity towards both MCH-1R and MCH-2R, which are human MCH receptors in the brain. The compound effectively binds to and activates these receptors, with IC 50 values of 0.16 nM and 2.7 nM for MCH-1R and MCH-2R, respectively.
Targets(IC50)	Melanin-concentrating Hormone Receptor (MCHR),GPCR
In vitro	Ac-hMCH(6-16)-NH2 demonstrates efficacy in activating MCH-1R and MCH-2R receptors, with EC 50 values of 20 nM for MCH-1R and 98 nM for MCH-2R, as measured in an aequorin-based functional assay[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.717 mL	3.5849 mL	7.1698 mL
5 mM	0.1434 mL	0.717 mL	1.434 mL
10 mM	0.0717 mL	0.3585 mL	0.717 mL
50 mM	0.0143 mL	0.0717 mL	0.1434 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

Maria A Bednarek, et al. Synthesis and biological evaluation in vitro of a selective, high potency peptide agonist of human melanin-concentrating hormone action at human melanin-concentrating hormone receptor 1. J Biol Chem. 2002 Apr 19;277(16):13821-6.

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