

Adrenocorticotrophic Hormone (ACTH) (4-10) TFA

Chemical Properties

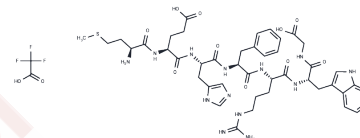
CAS No. :

Formula: C46H60F3N13O12S

Molecular Weight: 1076.12

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	Adrenocorticotrophic Hormone (ACTH) (4-10) TFA (Acth (4-10)) is an agonist of potent melanocortin(MC4R) receptor .
Targets(IC50)	Melanocortin Receptor
In vivo	In humans, Adrenocorticotrophic Hormone (ACTH) (4-10)?enters the cerebral fluid compartment after intranasal application and leads to a?decrease in total body fat after 6 weeks of continuous treatment[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (232.32 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	0.9293 mL	4.6463 mL	9.2926 mL
5 mM	0.1859 mL	0.9293 mL	1.8585 mL
10 mM	0.0929 mL	0.4646 mL	0.9293 mL
50 mM	0.0186 mL	0.0929 mL	0.1859 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

P Wellhöner, R Hörster, Jacobs F , et al. Intranasal application of the melanocortin 4 receptor agonist MSH/ACTH(4-10) in humans causes lipolysis in white adipose tissue.[J]. International Journal of Obesity, 2012, 36(5):703.

Krude H , Biebermann H , Schnabel D , et al. Obesity Due to Proopiomelanocortin Deficiency: Three New Cases and Treatment Trials with Thyroid Hormone and ACTH4-10[J]. The Journal of Clinical Endocrinology & Metabolism, 2003, 88(10):4633-4640.

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