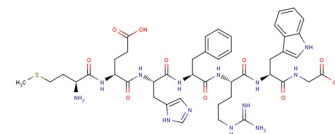


## Adrenocorticotrophic Hormone (ACTH) (4-10)

## Chemical Properties

CAS No.:	4037-01-8
Formula:	C44H59N13O10S
Molecular Weight:	962.09
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Adrenocorticotrophic Hormone (ACTH) (4-10) is an agonist of potent melanocortin(MC4R) receptor .
Targets(IC <sub>50</sub> )	melanocortin(MC4R): None
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: 10 mM ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.039 mL	5.197 mL	10.394 mL
5 mM	0.208 mL	1.039 mL	2.079 mL
10 mM	0.104 mL	0.52 mL	1.039 mL
50 mM	0.021 mL	0.104 mL	0.208 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.
1. Wellhöner P, et al. Intranasal application of the melanocortin 4 receptor agonist MSH/ACTH(4-10) in humans causes lipolysis in white adipose tissue. Int J Obes (Lond). 2012 May;36(5):703-8.
2. 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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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481