

## Beta-MSH (1-22) (human) acetate

## Chemical Properties

CAS No. :

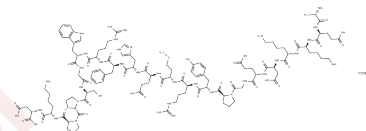
Formula: C120H178N34O37S

Molecular Weight: 2720.97

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	Beta-MSH (1-22) (human) acetate (Beta-MSH (1-22) (human) acetate (17908-57-5 Free base)) , is an endogenous melanocortin-4 receptor (MC4-R) agonist.
Targets(IC50)	Melanocortin Receptor
In vitro	$\beta$ -MSH, human has high affinity at both human MC4-R transfected into CHO cells with a $K_i$ of $11.4 \pm 0.4$ nM and MC4-R in rat hypothalamic homogenates with a $K_i$ of $5.0 \pm 0.4$ nM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3675 mL	1.8376 mL	3.6752 mL
5 mM	0.0735 mL	0.3675 mL	0.735 mL
10 mM	0.0368 mL	0.1838 mL	0.3675 mL
50 mM	0.0074 mL	0.0368 mL	0.0735 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

Harrold JA, et al. beta-MSH: a functional ligand that regulated energy homeostasis via hypothalamic MC4-R? Peptides. 2003 Mar;24(3):397-405.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481