

HS 014 acetate(207678-81-7 free base)

## Chemical Properties

CAS No. :

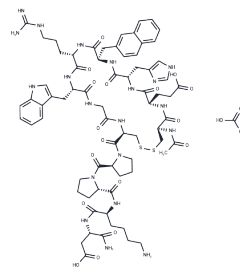
Formula: C73H98N20O19S2

Molecular Weight: 1623.83

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	HS 014 acetate is a potent and selective melanocortin MC4 receptor antagonist (K <sub>i</sub> values are 3.16, 108, 54.4 and 694 nM for cloned human MC4, MC1, MC3 and MC5 receptors respectively). Increases food intake in rats and nociception in mice following central administration in vivo. Also inhibits IL-1β-induced Fos expression in the paraventricular hypothalamus.
Targets(IC50)	Melanocortin Receptor

## Solubility Information

Solubility	DMSO: 10 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	0.6158 mL	3.0791 mL	6.1583 mL
5 mM	0.1232 mL	0.6158 mL	1.2317 mL
10 mM	0.0616 mL	0.3079 mL	0.6158 mL
50 mM	0.0123 mL	0.0616 mL	0.1232 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

Bellasio et al (2003) Melanocortin receptor agonists and antagonists modulate nociceptive sensitivity in the mouse formalin test. Eur.J.Pharmacol. 482 127 PMID:

Schioth et al (1998) Discovery of novel melanocortin4 receptor selective MSH analogues. Br.J.Pharmacol. 124 75 PMID:

Whitaker and Reye (2008) Central blockade of melanocortin receptors attenuates the metabolic and locomotor responses to peripheral interleukin-1 $\beta$  administration. Neuropharmacology 54 509 PMID:

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