

## Data Sheet (Cat.No.TP2011)

JKC 363

### Chemical Properties

CAS No.:	436083-30-6
Formula:	C69H91N19O16S2
Molecular Weight:	1506.72
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	Potent and selective melanocortin MC4 receptor antagonist (IC50 values are 0.5 and 44.9 nM at MC4 and MC3 respectively) that antagonizes the effects of $\alpha$ -MSH. Suppresses thyrotropin-releasing hormone (TRH) release, attenuates food intake and reduces formalin-induced pain in vivo.
-------------	--

### Solubility Information

Solubility	water: 1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.664 mL	3.318 mL	6.637 mL
5 mM	0.133 mL	0.664 mL	1.327 mL
10 mM	0.066 mL	0.332 mL	0.664 mL
50 mM	0.013 mL	0.066 mL	0.133 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

- Kim et al (2002) Effects of melanocortin receptor ligands on thyrotropin-releasing hormone release: evidence for the differential roles of melanocortin 3 and 4 receptors. *J.Neuroendocrinol.* 14 276 PMID:
- Bellasio et al (2003) Melanocortin receptor agonists and antagonists modulate nociceptive sensitivity in the mouse formalin test. *Eur.J.Pharmacol.* 482 127 PMID:
- Verty et al (2004) Evidence for an interaction between CB1 cannabinoid and melanocortin MCR-4 receptors in regulating food intake. *Endocrinology* 145 3224 PMID:

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

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

Address:36 Washington Street,Wellesley Hills,MA 02481