

Data Sheet (Cat.No.TP2100)

Exendin-3 (9-39) amide

Chemical Properties

CAS No.:	133514-43-9
Formula:	C149H234N40O47S
Molecular Weight:	3369.79
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 GLP-1 receptor antagonist (Kd = 1.7 nM at cloned human GLP-1 receptors). Inhibits cAMP production and insulin release induced by GLP-1 (7-36), exendin-3 (IC50 = 20 nM) and exendin-4. Blocks the inhibitory effect of GLP-1 on food intake in rats.
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Solubility Information

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

	1mg	5mg	10mg
1 mM	0.297 mL	1.484 mL	2.968 mL
5 mM	0.059 mL	0.297 mL	0.594 mL
10 mM	0.03 mL	0.148 mL	0.297 mL
50 mM	0.006 mL	0.03 mL	0.059 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. Raufman et al (1991) Exendin-3, a novel peptide from the Heloderma horridum venom, interacts with vasoactive intestinal peptide receptors and a newly described receptor on dispersed acini from guinea pig pancreas. *J.Biol.Chem.* 266 2897 PMID:
2. Goke et al (1993) Exendin-4 is a high potency agonist and truncated exendin-(9-39)-amide an antagonist at the glucagon-like peptide 1-(7-36)-amide receptor of Ins-Secr.g β-cells. *J.Biol.Chem.* 268 19650 PMID:
3. Thorens et al (1993) Cloning and functional expression of the human islet GLP-1 receptor. Demonstration that exendin-4 is an agonist and exendin-(9-39) an antagonist of the receptor. *Diabetes* 42 1678 PMID:
4. Turton et al (1996) A role for glucagon-like peptide-1 in the central regulation of feeding. *Nature* 379 69 PMID:

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Tel:781-999-4286

E-mail:info@targetmol.com

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