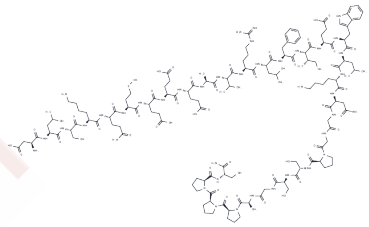
Data Sheet (Cat.No.TP2100)

TargetMol

Avexitide

Chemical Properties



CAS No. : 133514-43-9

Formula: C149H234N40O47S

Molecular Weight: 3369.76

Storage: Store at low temperature,Keep away from moisture,
Keep away from direct sunlight
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	Avexitide (Exendin-3 (9-39) amide) (Exendin (9-39)) is a specific and competitive antagonist of glucagon-like peptide-1 (GLP-1) receptor.
Targets(IC50)	Glucagon Receptor
In vitro	Avexitide (Exendin (9-39)) is a specific GLP-1 receptor antagonist which is a truncated form of the GLP-1 agonist exendin-4. GLP-1 plays a role in the control of fasting glucose.
In vivo	Continuous subcutaneous infusion of Avexitide (Exendin (9-39)) significantly raises fasting blood glucose levels in SUR-1 mice, without affecting glucose tolerance.

Solubility Information

Solubility	H2O: 49 mg/mL (14.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2968 mL	1.4838 mL	2.9676 mL
5 mM	0.0594 mL	0.2968 mL	0.5935 mL
10 mM	0.0297 mL	0.1484 mL	0.2968 mL
50 mM	0.0059 mL	0.0297 mL	0.0594 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

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:
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:
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:
Turton et al (1996) A role for glucagon-like peptide-1 in the central regulation of feeding. Nature 379 69 PMID: