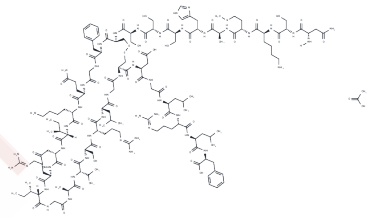
Data Sheet (Cat.No.T83905)

TargetMol

Brain Natriuretic Peptide-32 (rat) acetate

Chemical Properties



CAS No. :

Formula: C146H239N47O44S3.XC2H4O2

Molecular Weight: 3452.90

Storage: Keep away from moisture
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	Brain natriuretic peptide-32 (BNP-32), a fragment of the proBNP cardiovascular hormone precursor, exhibits affinity for natriuretic peptide receptors in rat vascular smooth muscle cells (IC50 = 7.3 nM) and promotes cGMP accumulation within these cells (EC50 = 170 nM). Additionally, BNP-32 effectively mediates the relaxation of norepinephrine-precontracted isolated rat aortic strips (EC50 = 6.7 nM). Upon administration at a dosage of 3 μg/kg, it elevates urine and urinary electrolyte outputs and induces hypotension in rats.

Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2896 mL	1.4481 mL	2.8961 mL
5 mM	0.0579 mL	0.2896 mL	0.5792 mL
10 mM	0.029 mL	0.1448 mL	0.2896 mL
50 mM	0.0058 mL	0.029 mL	0.0579 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.

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