

## st-Ht31 ammonium

## Chemical Properties

CAS No. :

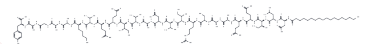
Formula: C129H217N29O39.XNH4

Molecular Weight: 2798.28

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	st-Ht31, a cell-permeable stearated peptide derived from the amphipathic helix domain of A-kinase anchoring proteins (AKAPs), effectively binds protein kinase A (PKA), impacting PKA's cellular interactions without altering its activity. Specifically, at a 50 $\mu$ M concentration, it reduces PKA's membrane anchoring in BHK-21 fibroblast reporter assays. Moreover, st-Ht31 at concentrations of 1 and 3 $\mu$ M decreases both capacitance and hyperactivation in mouse sperm, thereby inhibiting in vitro fertilization. Additionally, at 50 $\mu$ M, this compound facilitates cholesterol export in BHK-21 cells and RAW 264.7 macrophages expressing ATP-binding cassette transporter 1 (ABCA1), showcasing its multifaceted cellular impacts.
Targets(IC50)	PAK

## Solubility Information

Solubility	30% ACN/H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3574 mL	1.7868 mL	3.5736 mL
5 mM	0.0715 mL	0.3574 mL	0.7147 mL
10 mM	0.0357 mL	0.1787 mL	0.3574 mL
50 mM	0.0071 mL	0.0357 mL	0.0715 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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