

st-Ht31 P

## Chemical Properties

CAS No. :	252869-81-1
Formula:	C127H209N29O39
Molecular Weight:	2766.19
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	st-Ht31 P is the negative control peptide for st-Ht31; it contains a proline substituted for isoleucine to prevent the formation of an amphiphilic helix and has no effect on neurite outgrowth. st-Ht31 is cell-permeable and can disrupt the interaction between AKAP (A-kinase anchoring protein) and PKA, thereby preventing phosphodiesterase-mediated downregulation of cAMP and PKA signaling and promoting axonal growth.
Targets(IC50)	Others

## Solubility Information

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

	1mg	5mg	10mg
1 mM	0.3615 mL	1.8075 mL	3.6151 mL
5 mM	0.0723 mL	0.3615 mL	0.723 mL
10 mM	0.0362 mL	0.1808 mL	0.3615 mL
50 mM	0.0072 mL	0.0362 mL	0.0723 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

- Vijayaraghavan S, et al. Protein kinase A-anchoring inhibitor peptides arrest mammalian sperm motility. J Biol Chem. 1997;272(8):4747-4752.
- Gorshkov K, et al. AKAP-mediated feedback control of cAMP gradients in developing hippocampal neurons. Nat Chem Biol. 2017;13(4):425-431.
- Vincent et al (2017) Signaling: Spatial regulation of axonal cAMP. Nat.Chem.Biol. 13 348 PMID:28328917

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