

Certificate of Analysis

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Product Name: st-Ht31
CAS Number: 188425-80-1

Catalog No.: 6286 **Batch No.:** 6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂₉H₂₁₇N₂₉O₃₉
Batch Molecular Weight: 2798.27
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 0.01M PBS (pH 7.4)
Storage: Store at -20°C
Peptide Sequence: Ste-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-Ile-Val-Asp-Ala-Val-Ile-Glu-Gln-Val-Lys-Ala-Ala-Gly-Ala-Tyr

2. ANALYTICAL DATA

HPLC: Shows 96.0% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	6.00	5.94	Lys	1.00	0.99
Arg	1.00	1.01	Met		
Asx	2.00	2.00	Phe		
Cys			Pro		
Glx	4.00	4.00	Ser	1.00	1.00
Gly	1.00	1.02	Thr		
His			Trp		
Ile	3.00	2.17	Tyr	1.00	1.03
Leu	1.00	0.97	Val	3.00	2.42

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 188425-80-1

Description:

st-Ht31 is a stearylated form of the peptide Ht-31. Inhibits the interaction between the RII subunits of cAMP-dependent PKA and A-kinase anchoring protein (AKAP) in cell extracts. Cell permeable.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂₉H₂₁₇N₂₉O₃₉

Batch Molecular Weight: 2798.27

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ste-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-Ile-Val-Asp-Ala-Val-Ile-Glu-Gln-Val-Lys-Ala-Ala-Gly-Ala-Tyr

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in 0.01M PBS (pH 7.4)

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Stival et al (2018) Disruption of protein kinase A localization induces acrosomal exocytosis in capacitated mouse sperm. *J.Biol.Chem.* **293** 9435. PMID: 29700114.

Gorshkov et al (2017) AKAP-mediated feedback control of cAMP gradients in developing hippocampal neurons. *Nat.Chem.Biol.* **13** 425. PMID: 28192412.

Vijayaraghavan et al (1997) Protein kinase A-anchoring inhibitor peptides arrest mammalian sperm motility. *J.Biol.Chem.* **272** 4747. PMID: 9030527.

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