

Certificate of Analysis

www.tocris.com

Product Name: st-Ht31 P
CAS Number: 252869-81-1

Catalog No.: 6287

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{127}H_{209}N_{29}O_{39}$
Batch Molecular Weight: 2766.19
Physical Appearance: White lyophilised solid
Net Peptide Content: 100%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in 0.1% Ammonia
Storage: Store at -20°C
Peptide Sequence: Ste-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-
Pro-Val-Asp-Ala-Val-Pro-Glu-Gln-Val-Lys-
Ala-Ala-Gly-Ala-Tyr

2. ANALYTICAL DATA

HPLC: Shows 97.7% purity
Mass Spectrum: Consistent with structure

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

Product Name: st-Ht31 P
CAS Number: 252869-81-1**Catalog No.:** 6287 **Batch No.:** 1**Description:**

Negative control for st-Ht31 (Cat. No. 6286).

Physical and Chemical Properties:Batch Molecular Formula: C₁₂₇H₂₀₉N₂₉O₃₉

Batch Molecular Weight: 2766.19

Physical Appearance: White lyophilised solid

Peptide Sequence:Ste-Asp-Leu-Ile-Glu-Glu-Ala-Ala-Ser-Arg-
Pro-Val-Asp-Ala-Val-Pro-Glu-Gln-Val-Lys-
Ala-Ala-Gly-Ala-Tyr**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in 0.1% Ammonia

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.

Net Peptide Content: 100% (Remaining weight made up of counterions and residual water).**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:**Gorshkov et al** (2017) AKAP-mediated feedback control of cAMP gradients in developing hippocampal neurons. *Nat.Chem.Biol.* **13** 425. PMID: 28192412.**Vincent et al** (2017) Signaling: Spatial regulation of axonal cAMP. *Nat.Chem.Biol.* **13** 348. PMID: 28328917.**Vijayaraghavan et al** (1997) Protein kinase A-anchoring inhibitor peptides arrest mammalian sperm motility. *J.Biol.Chem.* **272** 4747. PMID: 9030527.

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com**North America**
Tel: (800) 343 7475**China**
info.cn@bio-techne.com
Tel: +86 (21) 52380373**Europe Middle East Africa**
Tel: +44 (0)1235 529449**Rest of World**
www.tocris.com/distributors
Tel: +1 612 379 2956