

Product Name: Stressin I

Catalog No.: 1608

Batch No.: 10

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀₃H₃₃₇N₅₇O₅₆
Batch Molecular Weight: 4472.24
Physical Appearance: White lyophilised solid
Net Peptide Content: 81%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ac-Pro-Pro-Ile-Ser-Leu-Asp-Leu-Thr-D-Phe-His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Nle-Ala-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-cyclo(-γ-Glu-His-Ser-ε-Lys)-Arg-Lys-Leu-Nle-Glu-Ile-Ile-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
Mass Spectrum: Consistent with structure

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

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Description:

Potent and selective corticotropin releasing factor receptor-1 (CRF₁) agonist (K_i values are 1.5 and 224 nM for CRF₁ and CRF₂ receptors respectively). Increases ACTH levels and increases faecal pellet output in vivo following i.p. administration.

Physical and Chemical Properties:

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Batch Molecular Weight: 4472.24

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Pro-Pro-Ile-Ser-Leu-Asp-Leu-Thr-D-Phe-
His-Leu-Leu-Arg-Glu-Val-Leu-Glu-Nle-Ala-Arg-
Ala-Glu-Gln-Leu-Ala-Gln-Gln-cyclo-(γ -Glu-His-
Ser- ϵ -Lys)-Arg-Lys-Leu-Nle-Glu-Ile-Ile-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

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: 81% (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 μ m filter to remove potential bacterial contamination whenever possible.

Licensing Information:

Sold with the permission of the SALK Institute

References:

Bruchas *et al* (2009) CRF1-R activation of the dynorphin/kappa opioid system in the mouse basolateral amygdala mediates anxiety-like behavior. *PLoS One*. **4** e8528. PMID: 20052275.

Rivier *et al* (2007) Stressin₁-A, a potent cortico. releasing factor receptor 1 (CRF₁)-selective peptide agonist. *J.Med.Chem.* **50** 1668. PMID: 17335188.

Rivier *et al* (2002) Receptor-selective cortico. releasing factor analogs. *Endocrin.Soc.Abstr.* P2-50.

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