

Certificate of Analysis

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Product Name: Astressin 2B

Catalog No.: 2391

Batch No.: 9

CAS Number: 681260-70-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈₃ H ₃₀₇ N ₄₉ O ₅₃
Batch Molecular Weight:	4041.69
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Ac-Asp-Leu-Ser-D-Phe-His- α -methyl-Leu-Leu-Arg-Lys-Nle-Ile-Glu-Ile-Glu-Lys-Gln-Glu-Lys-Glu-Lys-Gln-Gln-Ala-cyclo(γ -Glu-Asn-Asn- ϵ -Lys)-Leu-Leu-Leu-Asp- α -methyl-Leu-Ile-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows 95.2% purity
Mass Spectrum:	Consistent with structure

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

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Product Name: Astressin 2B

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CAS Number: 681260-70-8

Description:

Astressin 2B is a potent and selective corticotropin-releasing factor receptor 2 (CRF₂) antagonist (IC₅₀ values are 1.3 and > 500 nM for CRF₂ and CRF₁ respectively). Antagonizes CRF₂-mediated inhibition of gastric emptying.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈₃H₃₀₇N₄₉O₅₃

Batch Molecular Weight: 4041.69

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Asp-Leu-Ser-D-Phe-His- α -methyl-Leu-Leu-Arg-Lys-Nle-Ile-Glu-Ile-Glu-Lys-Gln-Glu-Lys-Glu-Lys-Gln-Gln-Ala-cyclo(γ -Glu-Asn-Asn- ϵ -Lys)-Leu-Leu-Leu-Asp- α -methyl-Leu-Ile-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Henry *et al* (2006) The effect of lateral septum corticotropin-releasing factor receptor 2 activation on anxiety is modulated by stress. *J. Neurosci.* **26** 9142. PMID: 16957071.

Hoare *et al* (2005) Peptide ligand binding properties of the corticotropin-releasing factor (CRF) type 2 receptor: pharmacology of endogenously expressed receptors, G-protein-coupled sensitivity and determinants of CRF2 receptor selectivity. *Peptides* **26** 457. PMID: 15652653.

Rivier *et al* (2002) Potent and long-acting cortico. releasing factor (CRF) receptor 2 selective peptide competitive antagonists. *J. Med. Chem.* **45** 4737. PMID: 12361401.

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