

Certificate of Analysis

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Product Name: M871
CAS Number: 908844-75-7

Catalog No.: 2698 **Batch No.:** 3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₈H₁₆₃N₂₇O₂₈
Batch Molecular Weight: 2287.64
Physical Appearance: White lyophilised solid
Net Peptide Content: 88%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-Glu-His-Pro-Pro-Pro-Ala-Leu-Ala-Leu-Ala-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	4.04	Lys		
Arg			Met		
Asx	1.00	0.99	Phe		
Cys			Pro	4.00	3.93
Glx	1.00	1.02	Ser	1.00	0.98
Gly	2.00	1.98	Thr	1.00	0.86
His	1.00	0.83	Trp		
Ile			Tyr	1.00	0.98
Leu	5.00	5.12	Val		

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

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Description:

Selective galanin GAL₂ receptor antagonist (K_i values are 13.1 and 420 nM for GAL₂ and GAL₁ receptors respectively). Blocks the pro-nociceptive effect of GAL₂ receptor agonists.

Physical and Chemical Properties:Batch Molecular Formula: C₁₀₈H₁₆₃N₂₇O₂₈

Batch Molecular Weight: 2287.64

Physical Appearance: White lyophilised solid

Peptide Sequence:

Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-
Gly-Pro-Glu-His-Pro-Pro-Ala-Leu-Ala-
Leu-Ala-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: 88% (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:

Jimenez-Andrade et al (2006) Activation of peripheral galanin receptors: differential effects on nociception. *Pharmacol.Biochem.Behav.* **85** 273. PMID: 16996122.

Sollenburg et al (2006) M871 - a novel peptide antagonist selectively recognizing the galanin receptor type 2. *Int.J.Pept.Res.Ther.* **12** 115.

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