



Certificate of Analysis

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Product Name: Neuropeptide S (Mouse) Catalog No.: 5857 Batch No.: 4

CAS Number: 412938-74-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉₃H₁₅₆N₃₄O₂₇

Batch Molecular Weight: 2182.47

Physical Appearance: White lyophilised solid

Net Peptide Content: 71%
Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ser-Phe-Arg-Asn-Gly-Val-Gly-Ser-Gly-Ala-

Lys-Lys-Thr-Ser-Phe-Arg-Arg-Ala-Lys-Gln

2. ANALYTICAL DATA

HPLC: Shows 96.6% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	2.00	1.94	Lys	3.00	3.03
Arg	3.00	3.05	Met		
Asx	1.00	1.00	Phe	2.00	1.90
Cys			Pro		
Glx	1.00	1.04	Ser	3.00	2.91
Gly	2.00	2.95	Thr	1.00	1.04
His			Trp		
lle			Tyr		
Leu			Val	1.00	1.03

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



Product Information

Print Date: Nov 3rd 2025

Batch No.: 4

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Product Name: Neuropeptide S (Mouse)

CAS Number: 412938-74-0

Description:

Neuropeptide S (Mouse) is a potent endogenous neuropeptide S receptor (NPSR) agonist (EC $_{50}$ = 3 nM). Induces mobilization of intracellular Ca $^{2+}$. Increases locomotor activity and wakefulness in mice. Also reduces anxiety-like behavior in mice.

Physical and Chemical Properties:

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Phe-Arg-Asn-Gly-Val-Gly-Ser-Gly-Ala-Lys-Lys-Thr-Ser-Phe-Arg-Arg-Ala-Lys-Gln **Storage:** Store at -20°C

Solubility & Usage Info:

Soluble to 2 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.

Catalog No.: 5857

Net Peptide Content: 71% (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 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:

Xu et al (2004) Neuropeptide S: a neuropeptide promoting arousal and anxiolytic-like effects. Neuron 43 487. PMID: 15312648.