

Certificate of Analysis

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Product Name: SLIGRL-NH₂

Catalog No.: 1468

Batch No.: 15

CAS Number: 171436-38-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₅₆N₁₀O₇
Batch Molecular Weight: 656.82
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ser-Leu-Ile-Gly-Arg-Leu-NH₂

2. ANALYTICAL DATA

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

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg	1.00		1.04	Met			
Asx				Phe			
Cys				Pro			
Glx				Ser	1.00		0.72
Gly	1.00		0.93	Thr			
His				Trp			
Ile	1.00		1.01	Tyr			
Leu	2.00		2.02	Val			

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

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Product Name: SLIGRL-NH₂**Catalog No.:** 1468**15**

CAS Number: 171436-38-7

Description:

SLIGRL-NH₂ is an agonist peptide derived from the N-terminus of protease-activated receptor-2 (PAR₂). Activates PAR₂ (EC₅₀ ~ 5 μM) and facilitates gastrointestinal transit in mice in vivo. Control Peptide also available.

Physical and Chemical Properties:Batch Molecular Formula: C₂₉H₅₆N₁₀O₇

Batch Molecular Weight: 656.82

Physical Appearance: White lyophilised solid

Peptide Sequence:Ser-Leu-Ile-Gly-Arg-Leu-NH₂**Storage:** Store 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.

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:

Kawabata et al (2001) In vivo evidence that protease-activated receptors 1 and 2 modulate gastrointestinal transit in the mouse. *Br.J.Pharmacol.* **133** 1213. PMID: 11498505.

Al-Ani et al (1995) Detection of functional receptors for the proteinase-activated-receptor-2-activating polypeptide, SLIGRL-NH₂, in rat vascular and gastric smooth muscle. *Can.J.Physiol.Pharmacol.* **73** 1203. PMID: 8564891.

Nystedt et al (1994) Molecular cloning of a potential proteinase activated receptor. *Proc.Natl.Acad.Sci.U.S.A.* **91** 9208. PMID: 7937743.

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