

Certificate of Analysis

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Product Name: SLIGKV-NH2

Catalog No.: 3010

Batch No.: 9

CAS Number: 190383-13-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₅₄N₈O₇
Batch Molecular Weight: 614.78
Physical Appearance: White lyophilised solid
Net Peptide Content: 71.2%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ser-Leu-Ile-Gly-Lys-Val-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		0.99
Arg				Met			
Asx				Phe			
Cys				Pro			
Glx				Ser	1.00		0.81
Gly	1.00		1.00	Thr			
His				Trp			
Ile	1.00		0.98	Tyr			
Leu	1.00		0.97	Val	1.00		1.05

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

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Catalog No.: 3010

Batch No.: 9

CAS Number: 190383-13-2

Description:

Protease-activated receptor 2 (PAR₂) agonist (K_i = 9.64 μM and IC₅₀ = 10.4 μM). Corresponds to the tethered ligand exposed by trypsin cleavage of PAR-2. Control Peptide also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₈H₅₄N₈O₇

Batch Molecular Weight: 614.78

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Leu-Ile-Gly-Lys-Val-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: 71.2% (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:

Kanke *et al* (2005) Binding of a highly potent protease-activated receptor-2 (PAR2) activating peptide, [³H]2-furoyl-LIGRL-NH₂, to human PAR2. *Br.J.Pharmacol.* **145** 255. PMID: 15765104.

Hollenberg and Compton (2002) International union of pharmacology XXVIII. Proteinase-activated receptors. *Pharmacol.Rev.* **54** 203. PMID: 12037136.

Bohm *et al* (1996) Molecular cloning, expression and potential functions of the human proteinase-activated receptor-2. *Biochem.J.* **314** 1009. PMID: 8615752.

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