

Certificate of Analysis

www.tocris.com

Product Name: VKGILS-NH₂

Catalog No.: 3392

Batch No.: 10

CAS Number: 942413-05-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₅₄N₈O₇
Batch Molecular Weight: 614.79
Physical Appearance: White lyophilised solid
Net Peptide Content: 73%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Val-Lys-Gly-Ile-Leu-Ser-NH₂

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		0.97
Arg				Met			
Asx				Phe			
Cys				Pro			
Glx				Ser	1.00		1.04
Gly	1.00		1.01	Thr			
His				Trp			
Ile	1.00		0.97	Tyr			
Leu	1.00		1.04	Val	1.00		0.98

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: VKGILS-NH₂

Catalog No.: 3392

Batch No.: 10

CAS Number: 942413-05-0

Description:

Reversed amino acid sequence control peptide for SLIGKV-NH₂, a protease-activated receptor 2 (PAR₂) agonist. Active Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₈H₅₄N₈O₇

Batch Molecular Weight: 614.79

Physical Appearance: White lyophilised solid

Peptide Sequence:

Val-Lys-Gly-Ile-Leu-Ser-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

Net Peptide Content: 73% (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:

Lin et al (2008) Protease-activated receptor-2 (PAR-2) is a weak enhancer of mucin secretion by human bronchial epithelial cells in vitro. *Int.J.Biochem.Cell Biol.* **40** 1379. PMID: 18077203.

Huang (2007) Protease-activated receptor-1 (PAR1) and PAR2 but not PAR4 mediate relaxations in lower esophageal sphincter. *Regul.Pept.* **142** 37. PMID: 17335921.

Tognetto et al (2000) Evidence that PAR-1 and PAR-2 mediate prostanoid-dependent contraction in isolated guinea-pig gallbladder. *Br.J.Pharmacol.* **131** 689. PMID: 11030717.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956