

Certificate of Analysis

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Product Name: RLLFT-NH₂

Catalog No.: 3393

Batch No.: 4

CAS Number: 447408-68-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₅₃N₉O₆
Batch Molecular Weight: 647.82
Physical Appearance: White lyophilised solid
Net Peptide Content: 66%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Arg-Leu-Leu-Phe-Thr-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97.1% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys		
Arg	1.00	1.00	Met		
Asx			Phe	1.00	0.93
Cys			Pro		
Glx			Ser		
Gly			Thr	1.00	1.04
His			Trp		
Ile			Tyr		
Leu	2.00	2.03	Val		

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

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Product Name: RLLFT-NH₂

Catalog No.: 3393

Batch No.: 4

CAS Number: 447408-68-6

Description:

Reversed amino acid sequence control peptide for TFLLR-NH₂, a PAR₁ selective agonist that significantly increases nociceptive threshold. Active Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₅₃N₉O₆

Batch Molecular Weight: 647.82

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Leu-Leu-Phe-Thr-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

Net Peptide Content: 66% (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:

Buresi et al (2004) Activation of proteinase-activated receptor-1 inhibits neurally evoked chloride secretion in the mouse colon in vitro. *Am.J.Physiol.Gastrointest.Liver Physiol.* **288** G337. PMID: 15345469.

Fang et al (2003) Thrombin inhibits NMDA-mediated nociceptive activity in the mouse: possible mediation by endothelin. *J.Physiol.* **549** 903. PMID: 12717003.

Asfaha et al (2002) Proteinase-activated receptor-1 agonists attenuate nociception in response to noxious stimuli. *Br.J.Pharmacol.* **135** 1101. PMID: 11877315.

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