

Certificate of Analysis

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Product Name: FSLLRY-NH2

Catalog No.: 4751

Batch No.: 7

CAS Number: 245329-02-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₉H₆₀N₁₀O₈
Batch Molecular Weight: 796.97
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Phe-Ser-Leu-Leu-Arg-Tyr-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		1.02	Met			
Asx				Phe	1.00		1.03
Cys				Pro			
Glx				Ser	1.00		0.78
Gly				Thr			
His				Trp			
Ile				Tyr	1.00		0.93
Leu	2.00		2.03	Val			

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

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Description:

FSLLRY-NH2 is a selective PAR₂ peptide antagonist. Reverses taxol-induced mechanical allodynia, heat hyperalgesia and PKC activation in ICR mice. Blocks ERK activation and collagen production in isolated cardiac fibroblasts. Also reduces symptoms in a mouse model of dermatophyte-associated itch. FSLLRY-NH2 inhibits *C. albicans* induced inflammation in oral mucosal cells in vitro.

Physical and Chemical Properties:Batch Molecular Formula: C₃₉H₆₀N₁₀O₈

Batch Molecular Weight: 796.97

Physical Appearance: White lyophilised solid

Peptide Sequence:Phe-Ser-Leu-Leu-Arg-Tyr-NH₂**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 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.

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:

Kumar et al (2022) *Candida albicans* Sap6 initiates oral mucosal inflammation via the protease activated receptor PAR2. *Front.Immunol.* **13** 912748. PMID: 35844627.

Andoh et al (2012) Involvement of serine protease and proteinase-activated receptor 2 in dermatophyte-associated itch in mice. *J.Pharmacol.Exp.Ther.* **343** 91. PMID: 22761302.

Chen et al (2011) Proteinase-activated receptor 2 sensitizes transient receptor potential vanilloid 1, transient receptor potential vanilloid 4, and transient receptor potential ankyrin 1 in PacT.-induced neuropathic pain. *Neuroscience* **193** 440. PMID: 21763756.

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