

Certificate of Analysis

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Product Name: 2-Furoyl-LIGRLO-amide

Catalog No.: 3015

Batch No.: 11

CAS Number: 729589-58-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₆₃N₁₁O₈
Batch Molecular Weight: 777.96
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: 2-Furoyl-Leu-Ile-Gly-Arg-Leu-Orn-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		1.03	Met			
Asx				Phe			
Cys				Pro			
Glx				Ser			
Gly	1.00		1.05	Thr			
His				Trp			
Ile	1.00		1.05	Tyr			
Leu	2.00		1.88	Val			

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

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Product Name: 2-Furoyl-LIGRLO-amide**Catalog No.:** 3015**Batch No.:** 11

CAS Number: 729589-58-6

Description:

2-Furoyl-LIGRLO-amide is a potent and selective PAR₂ receptor agonist (pD₂ = 7.0). Causes a dose-dependent relaxation of murine femoral arteries.

Physical and Chemical Properties:Batch Molecular Formula: C₃₆H₆₃N₁₁O₈

Batch Molecular Weight: 777.96

Physical Appearance: White lyophilised solid

Peptide Sequence:2-Furoyl-Leu-Ile-Gly-Arg-Leu-Orn-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:

Olianas *et al* (2007) Proteinase-activated receptors 1 and 2 in rat olfactory system: layer-specific regulation of multiple signaling pathways in the main olfactory bulb and induction of neurite retraction in olfactory sensory neurons. *Neuroscience* **146** 1289. PMID: 17434682.

Alshurafa *et al* (2004) A protease activated receptor-2 (PAR-2) activating peptide, tc-LIGRLO-NH₂, induces protease release from mast cells: role in TNF degradation. *BMC Pharmacol.* **4** 12. PMID: 15265236.

McGuire *et al* (2004) 2-Furoyl-LIGRLO-amide: a potent and selective proteinase-activated receptor 2 agonist. *J.Pharmacol.Exp.Ther.* **309** 1124. PMID: 14976230.

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