

Certificate of Analysis

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Product Name: 2-Furoyl-LIGRLO-amide

Catalog No.: 3015

Batch No.: 12

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: Trifluoroacetate
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 98.7% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Amino Acid Actual
Ala			Lys
Arg	1.00	1.04	Met
Asx			Phe
Cys			Pro
Glx			Ser
Gly	1.00	1.04	Thr
His			Trp
Ile	1.00	1.04	Tyr
Leu	2.00	1.87	Val

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: 2-Furoyl-LIGRLO-amide

Catalog No.: 3015

Batch No.: 12

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: Trifluoroacetate

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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