

Certificate of Analysis

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Product Name: LRGILS-NH₂

Catalog No.: 3394

Batch No.: 4

CAS Number: 245329-01-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₅₆N₁₀O₇
Batch Molecular Weight: 656.83
Physical Appearance: White lyophilised solid
Net Peptide Content: 70.9%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in 30% acetonitrile / water
Storage: Store at -20°C
Peptide Sequence: Leu-Arg-Gly-Ile-Leu-Ser-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96% 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 | | | | |
| Cys | | | Pro | | | | |
| Glx | | | Ser | 1.00 | 1.00 | | |
| Gly | 1.00 | 1.00 | Thr | | | | |
| His | | | Trp | | | | |
| Ile | 1.00 | 0.95 | Tyr | | | | |
| Leu | 2.00 | 2.12 | Val | | | | |

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

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Product Name: LRGILS-NH₂

Catalog No.: 3394

Batch No.: 4

CAS Number: 245329-01-5

Description:

Reversed amino acid sequence control peptide for SLIGRL-NH₂, a protease-activated receptor-2 (PAR₂) agonist that facilitates gastrointestinal transit in vivo. Active Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₅₆N₁₀O₇

Batch Molecular Weight: 656.83

Physical Appearance: White lyophilised solid

Peptide Sequence:

Leu-Arg-Gly-Ile-Leu-Ser-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in 30% acetonitrile / water

Net Peptide Content: 70.9% (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:

Devlin *et al* (2007) Initial support for the hypothesis that PAR2 is involved in the immune response to *Nippostrongylus brasiliensis* in mice. *Parasitol.Res.* **101** 105. PMID: 17458579.

Nishikawa *et al* (2005) Protease-activated receptor-2 (PAR-2)-related peptides induce tear secretion in Rats: Involvement of PAR-2 and non-PAR-2 mechanisms. *J.Pharmacol.Exp.Ther.* **312** 324. PMID: 15331653.

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.

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