

## Certificate of Analysis

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**Product Name:** LRGILS-NH<sub>2</sub>

**Catalog No.:** 3394

**Batch No.:** 4

CAS Number: 245329-01-5

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>29</sub>H<sub>56</sub>N<sub>10</sub>O<sub>7</sub>  
**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-NH<sub>2</sub>

### 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			

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CAS Number: 245329-01-5

**Description:**

Reversed amino acid sequence control peptide for SLIGRL-NH<sub>2</sub> (Cat. No. 1468), a protease-activated receptor-2 (PAR<sub>2</sub>) agonist that facilitates gastrointestinal transit in vivo.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>29</sub>H<sub>56</sub>N<sub>10</sub>O<sub>7</sub>

Batch Molecular Weight: 656.83

Physical Appearance: White lyophilised solid

**Peptide Sequence:**Leu-Arg-Gly-Ile-Leu-Ser-NH<sub>2</sub>**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:**

**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.

**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.

**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.

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