

Certificate of Analysis

www.tocris.com

Product Name: TFLLR-NH₂
CAS Number: 197794-83-5

Catalog No.: 1464 **Batch No.:** 12

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₅₃N₉O₆
Batch Molecular Weight: 647.82
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Thr-Phe-Leu-Leu-Arg-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.1% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys		
Arg	1.00	1.06	Met		
Asx			Phe	1.00	0.96
Cys			Pro		
Glx			Ser		
Gly			Thr	1.00	0.99
His			Trp		
Ile			Tyr		
Leu	2.00	1.92	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: TFLLR-NH₂

Catalog No.: 1464

Batch No.: 12

CAS Number: 197794-83-5

Description:

TFLLR-NH₂ is a peptide derived from the protease-activated receptor-1 (PAR₁) that acts as a PAR₁ selective agonist (EC₅₀ = 1.9 μM). Stimulates PAR₁-mediated plasma extravasation in vivo. Control Peptide also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₅₃N₉O₆

Batch Molecular Weight: 647.82

Physical Appearance: White lyophilised solid

Peptide Sequence:

Thr-Phe-Leu-Leu-Arg-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:

de Garavilla et al (2001) Agonists of proteinase-activated receptor 1 induce plasma extravasation by a neurogenic mechanism. *Br.J.Pharmacol.* **133** 975. PMID: 11487506.

Kawabata et al (2000) Characterization of the protease-activated receptor-1-mediated contraction and relaxation in the rat duodenal smooth muscle. *Life Sci.* **67** 2521. PMID: 11065174.

Hollenberg et al (1997) Proteinase-activated receptors: structural requirements for activity, receptor cross-reactivity, and receptor selectivity of receptor-activating peptides. *Can.J.Physiol.Pharmacol.* **75** 832. PMID: 9315351.

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