Print Date: Apr 11th 2024

Certificate of Analysis

www.tocris.com

Product Name:	Leupeptin hemisulfate
CAS Number:	103476-89-7

Catalog No.: 1167 Batch No.: 27

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{20}H_{38}N_6O_4.1/_2H_2SO_4$
Batch Molecular Weight:	475.6
Physical Appearance:	White solid
Solubility:	Soluble to 10 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Ac-Leu-Leu-Arginal.½H ₂ SO ₄
2. ANALYTICAL DATA	

HPLC:

Mass Spectrum:

Shows 97.9% purity Consistent with structure

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



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Product Information

www.tocris.com

Product Name: Leupeptin hemisulfate

Leupeptin hemisulfate is a reversible inhibitor of trypsin-like and

cysteine proteases such as calpain. Shown to inhibit activation-

CAS Number: 103476-89-7

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 10 mg/ml in water This peptide is supplied in gross weight.

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).

Catalog No.: 1167

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such 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 aliguots and storing the aliguots 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:

Sarin et al (1994) Inhibition of activation-induced programmed cell death and restoration of defective immune responses of HIV+ donors by cysteine protease inhibitors. J.Immunol. 153 862. PMID: 8021517.

Mehdi (1991) Cell-penetrating inhibitors of calpain. TiBS 16 150. PMID: 1877091.

Wang (1990) Developing selective inhibitors of calpain. TiPS 11 139. PMID: 2185586.

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Description:

Batch Molecular Formula: C₂₀H₃₈N₆O₄.¹/₂H₂SO₄

Peptide Sequence:

Physical Appearance: White solid

induced programmed cell death.

Batch Molecular Weight: 475.6

Physical and Chemical Properties:

Ac-Leu-Leu-Arginal.1/2H2SO4