

### ★ Storage

Store -20°C.

### ★ Contents

- Product Manual
- Leupeptin Hemisulfate

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Shipping Condition

Ship with ice pack.

### ★ Formular

$C_{20}H_{38}N_6O_4 \cdot 0.5 H_2SO_4$

### ★ M.W.

475.59 g/mol

### ★ Introduction

Leupeptin hemisulfate (Ac-Leu-Leu-argininal) is a reversible inhibitor of serine and cysteine endopeptidases. Leupeptin hemisulfate is capable of inhibiting plasmin, trypsin, papain, kallikrein, calpain and cathepsin B. No inhibition has been found with pepsin, cathepsins A and D, elastase, renin or chymotrypsin. Leupeptin is also a lysosomal inhibitor, which promotes axon elongation due to the overexpression of FGFR1 in neurons. Through the inhibition of calpain, it prevents apoptosis of motoneurons and increases muscle function after nerve injury. Leupeptin is capable of reacting with various opioid receptors, reversibly inhibiting opioid receptor-ligand binding. Leupeptin is usually used in a concentration range of 10 to 100µM. Leupeptin is widely used in many protease inhibitor cocktails due to its potency, low toxicity, and range of inhibition. Leupeptin is also used in a quantitative assay to measure macroautophagic flux in mammals and is being investigated for its use in treating malaria.

### ★ Related Products

Product Name	Cat No
Albumin, (IgG, Fattu Acid and Protease Free)	A0100
AffiSelect Cox IV Loading Control Antibody	A0017
AffiSelect GAPDH Loading Control Antibody, 100ug	A0039
DTT, 1,4-Dithiothreitol, Diastone free	D0505
AffiSelect a-Tubulin Loading Control Antibody, 100ug	A0050
NP-40 Lysis Buffer (2X)	N1200
Xpert Protease Inhibitor Cocktail Solution (100X)	P3100
AEBSF	P3401
PMSF	P3408
ProsiBlue Gel Staining Solution	P7300
Protein Marker, Unstained, Broad Range (14.4-116 kDa)	P8501
Xpert Prestained Protein Marker (6.5-240 kDa)	P8502
Xpert 2 Prestained Protein Marker (10-240 kDa)	P8503
TBS Buffer, 20X, pH 7.4	T8054
Goat anti-Rabbit IgG(H+L)-HRP, 1mg/ml	SA002
Rabbit anti-Goat IgG(H+L)-HRP, 1mg/ml	SA007
West-Q Pico Dura ECL Solution	W3653
West-Q Femto ECL Solution	W3700