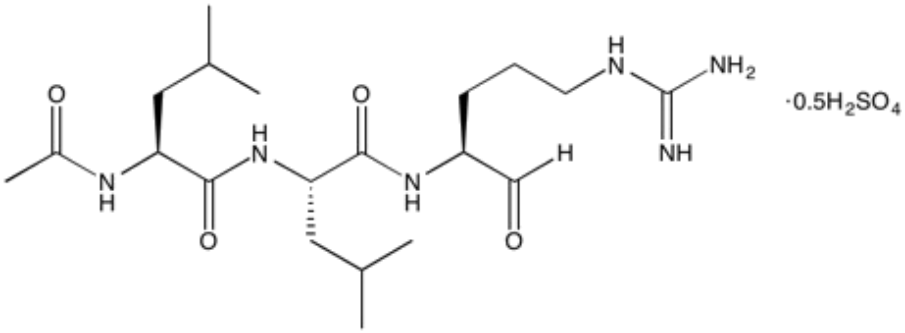
Catalog # 10-1346

Leupeptin hemisulfate

CAS# 103476-89-7

Ac-Leu-Leu-Arg-CHO, hemisulfate

Lot # X101482



A reversible inhibitor of trypsin-like proteases and cysteine proteases. Inhibits trypsin, plasmin, papain and cathepsin B, H and L.[1-3] Blocks various apoptotic pathways in T cells.[4] Commonly used in cell lysis buffers to protect proteins from degradation. Typical working concentration is 1µM (0.5 µg/ml).

1) Aoyagi *et al*. (1969), *Leupeptins, new protease inhibitors from Actinomycetes*; J. Antibiot., **22** 283

2) Barrett *et al*. (1981), *Cathepsin B, Cathepsin H and Cathepsin L*; Methods Enzymol., **Pt C, 80** 535

3) Knight *et al*. (1980), *Human cathepsin B. Application of the substrate N=benzyloxycarbonyl-L-arginyl-L-arginine 2-naphthylamide to a study of the inhibition by leupeptin*; Biochem. J., **189** 447

4) Sarin *et al*. (1995), *A protease-dependent TCR-induced death pathway in mature lymphocytes*; J. Immunol., **154** 5806

PHYSICAL DATA

Molecular Weight:	475.59
Molecular Formula:	$C_{20}H_{38}N_6O_4 \bullet 1/2H_2SO_4$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	Water (up to 50 mg/ml), also soluble in ethanol and methanol
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in water, ethanol or methanol may be stored at -20°C for up to 3 months.

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