

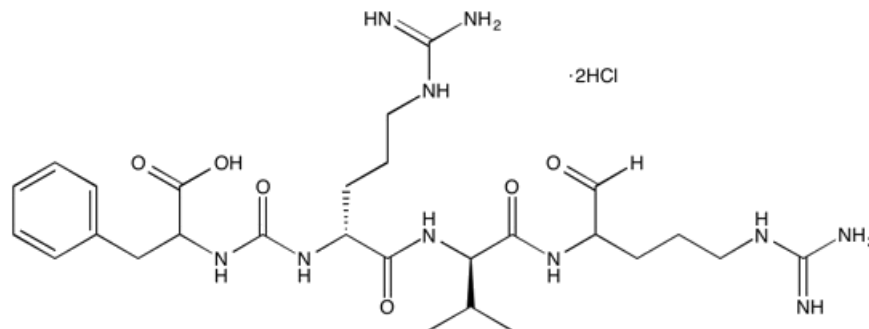
Catalog # 10-2734

Antipain 2HCl

CAS# 37682-72-7

(S)-1-Carboxy-2-phenylethyl]carbonyl-L-arginyl-L-valyl-argininal, dihydrochloride

Lot # X101145



Serine/cysteine protease inhibitor. Also inhibits some trypsin-like proteases.¹ May be used as an additive to prevent proteolytic activity during recombinant protein production in Sf-9 insect cell cultures.² May be employed in the characterization of newly discovered proteases.^{3,4} Blocks autophagy in cultured tobacco cells and may be used in an assay for autophagy in plant cells.⁵

- 1) Umezawa *et al.* (1976), *Structures and activities of protease inhibitors of microbial origin*; Method Enzymol., **45** 678
- 2) Gotoh *et al.* (2001), *Proteolytic activity and recombinant protein production in virus-infected Sf-9 insect cell cultures supplemented with carboxyl and cysteine protease inhibitors*; J. Biosci. Bioeng., **92** 248
- 3) Hockensmith *et al.* (2016), *Identification and characterization of a chymotrypsin-like serine protease from periodontal pathogen, Tannerella forsythia*; Microb. Pathog., **100** 37
- 4) Mat Amin *et al.* (2004), *Proteinases in Naegleria Fowleri (strain NF3), a pathogenic amoeba: a preliminary study.*; Trop. Biomed., **21** 57
- 5) Moriyasu & Inoue (2008), *Use of protease inhibitor for detecting autophagy in plants*; Methods Enzymol., **451** 557

PHYSICAL DATA

Molecular Weight:	677.62
Molecular Formula:	C ₂₇ H ₄₄ N ₁₀ O ₆ • 2HCl
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in Water (up to at least 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.