Aprotinin

Cat. # P1053-20, P1053-100

Also Known as:	BPTI, Bovine pancreatic trypsin inhibitor
Formula:	$C_{284}H_{432}N_{84}O_{79}S_7$
MW:	6511.5 Da
CAS No.:	9087-70-1
Source:	Bovine lung
Form:	Lyophilized Powder
Solubility:	Soluble in water or PBS buffer up to 50 mg/ml
Quality Assurance:	≥3.0 EPU/mg
Description:	Aprotinin is a 58 amino acid small protein that is highly positively charged and contains three disulfide bonds. It is a competitive inhibitor of several serine proteases, including trypsin, chymotrypsin, thrombin, and plasmin. In clinical, it is used as an anti-clotting agent for reducing bleeding. This product is for research use only. Typical working concentration is 2 µg/ml for inhibiting serine proteases.
Stock Solution Preparation:	100X or 1000X stock solution preparation (after fully dissolved, aliquot to small volume, and store at -20 ^{0}C). - Aprotinin (catalog # P1053): Dissolve 20 mg in 10 ml of water or PBS to get 2 mg/ml stock (1000X). Working concentration is 2 µg/ml. - Leupeptin Hemisulfate (catalog # P1057): Dissolve 10 mg in 2.1 ml of DMSO or water to get 10 mM stock (1000X). Working concentration is 10 µM. - Pepstatin A (catalog # P1054): Dissolve 5 mg in 7.3 ml of DMSO to get 1 mM stock (1000X). Working concentration is 1 µM. - AEBSF HCl (catalog # P1056): Dissolve 10 mg in 0.416 ml of DMSO to get 100 mM stock (100X). Working concentration is 1mM. - Bestatin (catalog # P1055): Dissolve 5 mg in 16.2 ml DMSO to get 1 mM stock (1000X). Working concentration is 1 µM. - E-64D (catalog # P1051): Dissolve 5 mg in 1.4 ml DMSO to get 10 mM stock (1000X). Working concentration is 10 µM.
Storage:	Eligible for room temperature shipping. Store at -20°C upon receiving; avoid multiple freeze-thaw cycles after dissolving in buffer.
Literature:	Fritz H., et al., Arzneimittelforschung, 1983, 33, 479.