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DATASHEET

Aprotinin

Product overview

Name	Aprotinin
Cat No	HB2980
Alternative names	BPTI, Pancreatic Trypsin Inhibitor, Trasylol
Biological action	Inhibitor
Purity	>95%
Description	Serine protease inhibitor

Biological Data

Biological description	Competitive serine protease inhibitor which reversibly binds to and blocks the enzyme active site. Aprotinin inhibits various serine proteases (trypsin, chymotrypsin, kallikrein and plasmin). It is commonly used to inhibit proteases present in tissue samples to prevent protein degration. This product is from Bovine lung.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in Water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Molecular Weight	6511.48
Molecular Formula	$C_{284}H_{432}N_{84}O_{79}S_7$
CAS Number	9087-70-1
PubChem identifier	53487898
SMILES	[H]N[C@@H](CCCNC(N)=N)C(=O)N1CCC[C@H]1C(=O)N[C@@H](CC(O)=O)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@H]1CSSC[C@H](NC(=O)[C@@H](NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](CCSC)NC(=O)[C@@H]2CSSC[C@@H]3NC(=O)[C@H](CC(C)C)NC(=O)CNC(=O)[C@H](C)NC(=O)[C@H](CCCCN)NC(=O)[C@H](C)NC(=O)[C@H](CC(N)=O)NC(=O)[C@H](CC4=CC=C(O)C=C4)NC(=O)[C@H](CC4=CC=CC=C4)NC(=O)[C@H](CC4=CC=C(O)C=C4)NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@@H](NC(=O)[C@@H](NC(=O)[C@H](CCCNC(N)=N)NC(=O)[C@H](C)NC(=O)[C@H](CCCCN)NC(=O)[C@H](CSSC[C@H](NC(=O)CNC(=O)CNC(=O)[C@H](CC4=CC=C(O)C=C4)NC(=O)[C@@H](NC(=O)[C@H](CC4=CC=CC=C4)NC(=O)[C@@H](NC(=O)[C@H](CCC(N)=O)NC3=O)[C@@H](C)O)C(C)C)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](C)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N[C@@H](CC(N)=O)C(=O)N[C@@H](CC(N)=O)C(=O)N[C@@H](CC3=CC=CC=C3)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H](CO)C(=O)N[C@@H](C)C(=O)N[C@@H](CCC(O)=O)C(=O)N[C@@H](CC(O)=O)C(=O)N2)NC(=O)[C@@H]2CCCN2C(=O)CNC(=O)[C@@H](NC(=O)[C@H](CC2=CC=C(O)C=C2)NC(=O)[C@@H]2CCCN2C(=O)[C@@H]2CCCN2C(=O)[C@H](CCC(O)=O)NC(=O)[C@H](CC(C)C)NC1=O)[C@@H](C)O)[C@@H](C)CC)[C@@H](C)CC)[C@@H](C)O)C(=O)NCC(=O)NCC(=O)N[C@@H](C)C(O)=O
InChiKey	ZPNFWUPYTFPOJU-YSFZTAPISA-N
MDL number	MFCD00130541
Appearance	White lyophilised solid

References

Aprotinin: A Serine Protease Inhibitor With Therapeutic Actions: Its Interaction With ACE Inhibitors

Waxler and Rabito (2003) Curr Pharm Des 9(9)

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