Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Pepstatin A

Product overview

Name	Pepstatin A
Cat No	HB3359
Purity	>98%
Description	Aspartic protease inhibitor

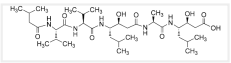
Biological Data

Biological description	Aspartic protease inhibitor. Widely used as a research tool in studies of protease mechanisms and biological functions. Inhibits degradation of autophagic cargo inside autophagolysosomes.

Solubility & Handling

Storage instructions	+4°C
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	685.9
Chemical structure	
Molecular Formula	$C_{34}H_{63}N_5O_9$
CAS Number	26305-03-3
PubChem identifier	5478883
SMILES	O=C(N[C@@H](CC(C)C)[C@@H](O)CC(N[C@@H](C)C(N[C@H]([C@@H](O)CC(O)=O)CC(C)C)=O)=O)[C@H]([C@@H](C)C)NC([C@@H](NC(CC(C)C)=O)C(C)C)=O
InChiKey	FAXGPCHRFPCXOO-LXTPJMTPSA-N
Appearance	White to off-white powder

References

Pepstatin A, an Aspartic Proteinase Inhibitor, Suppresses RANKL-induced Osteoclast Differentiation

Yoshida et al (2006) J Biochem 139(3)
PubMedID 16567424

Pepstatin, a New Pepsin Inhibitor Produced by Actinomycetes

Umezawa et al (1970) J Antibiot (Tokyo) 23(5)
PubMedID 4912600

Pepstatin A Alters Host Cell Autophagic Machinery and Leads to a Decrease in Influenza A Virus Production

Matarrese et al (2011) J Cell Physiol 226(12)

PubMedID	21344392