

Datasheet for ABIN7596248

Cathepsin Z Protein (CTSZ) (AA 24-303) (His tag)



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Overview

Quantity:	100 µg
Target:	Cathepsin Z (CTSZ)
Protein Characteristics:	AA 24-303
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin Z protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	GLYFRRGQTC YRPLRGDGLA PLGRSTYPRP HEYLSPADLP KSWDWRNVDP VNYASITRNQ HIPQYCGSCW AHAISTSAMAD RINIKRKGAW PSTLLSVQNV IDCNAGSCE GGNDLSVWDY AHQHGPDET CNNYQAKDQE CDKFNQCGTC NEFKECHAIR NYTLWRVGDY GSLSGREKMM AEIYANGPIS CGIMATERLA NYTGGIYAEY QDTTYINHV SVAGWGISDG TEYWIVRNSW GEPWGERGWL RIVTSTYKDG KGARYNLAIE EHCTFGDPIV LEHHHHHH
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 1,400pmol/min/ug in which one unit will convert 1.0pmole of Mca-PLGL-Dpa-AR-NH ₂ to MCA- Pro-Leu-OH per minute at pH 3.5 at 25C.

Target Details

Target:	Cathepsin Z (CTSZ)
Alternative Name:	Cathepsin Z (CTSZ Products)
Background:	Cathepsin Z, also known Cathepsin X and Cathepsin P, is a member of the C1 family of lysosomal cysteine proteases. It exhibits carboxy-monopeptidase and carboxy-dipeptidase activity. This protein regulates maturation of dendritic cells and plays important role in the initiation of adaptive immunity. It is also involved in tumor and immune cells as higher expression is found in tumour and immune cells of prostate and gastric carcinomas and in macrophages of gastric mucosa. Recombinant human Cathepsin Z protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	32.5 kDa (288aa)
NCBI Accession:	NP_001327
Pathways:	Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.