Datasheet for ABIN7596266

Cathepsin D Protein (CTSD) (AA 21-412) (His tag)

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Overview

Quantity:	500 µg
Target:	Cathepsin D (CTSD)
Protein Characteristics:	AA 21-412
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin D protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	LVRIPLHKFT SIRRTMSEVG GSVEDLIAKG PVSKYSQAVP AVTEGPIPEV LKNYMDAQYY GEIGIGTPPQ CFTVVFDTGS SNLWVPSIHC KLLDIACWIH HKYNSDKSST YVKNGTSFDI HYGSGSLSGY LSQDTVSVPC QSASSASALG GVKVERQVFG EATKQPGITF IAAKFDGILG MAYPRISVNN VLPVFDNLMQ QKLVDQNIFS FYLSRDPDAQ PGGELMLGGT DSKYYKGSLS YLNVTRKAYW QVHLDQVEVA SGLTLCKEGC EAIVDTGTSL MVGPVDEVRE LQKAIGAVPL IQGEYMIPCE KVSTLPAITL KLGGKGYKLS PEDYTLKVSQ AGKTLCLSGF MGMDIPPPSG PLWILGDVFI GRYYTVFDRD NNRVGFAEAA RL
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 20 pmol/min/ug, and is defined as the amount of enzyme that cleaves

Product Details

	1pmol of Mca-PLGL-Dpa-AR-NH2 per minute at pH 3.5 at 25C.

Target Details

Target:	Cathepsin D (CTSD)
Alternative Name:	Cathepsin D (CTSD Products)
Background:	Cathepsin D, also known as lysosomal aspartyl protease, is a member of the peptidase C1 family, which is a normal and major component of lysosomes, and is found in almost all cells and tissues of mammals. The main physiological functions of cathepsin D consist of metabolic degradation of intracellular proteins, activation and degradation of polypeptide hormones and growth factors, activation of enzymatic precursors, processing of enzyme activators and inhibitors, brain antigen processing and regulation of programmed cell death. In addition, it secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases. Recombinant human Cathepsin D, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	43.4 kDa (398aa)
NCBI Accession:	NP_001900
Pathways:	Peptide Hormone Metabolism

Application Details

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

Handling

Format:	Liquid
Concentration:	1 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.