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Cathepsin Z Protein (CTSZ) (His tag)



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Overview		
Quantity:	50 μg	
Target:	Cathepsin Z (CTSZ)	
Origin:	Mouse	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Purification tag / Conjugate:	This Cathepsin Z protein is labelled with His tag.	
Product Details		
Purpose:	Recombinant Mouse Cathepsin Z Protein (His Tag)(Active)	

Purpose:	Recombinant Mouse Cathepsin Z Protein (His Tag)(Active)
Sequence:	Met 1-Val 306
Characteristics:	A DNA sequence encoding the mouse CTSZ (NP_071720.1) precursor (Met 1-Val 306) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	$<$ 1.0 EU per μg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPPGFSAFK(Dnp)-OH (R&D Systems, Catalog # ES005). The specific activity is >1,200 pmoles/min/µg.

Target Details

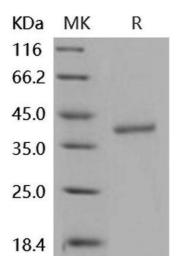
Target: Cathepsin Z (CTSZ)

Target Details

Alternative Name: Cathepsin Z (CTSZ Products)		
Background:	Background: Cathepsin Z (CTSZ), also known as Cathepsin X or CATX, belongs to the C1 family	
	of lysosomal cysteine proteases. Its gene structure and activity properties show several unique	
	features that distinguish it clearly from other human cysteine proteases. It has a very short pro-	
	region that shows no similarity to those of other cathepsins and a three-residue insertion motif	
	that forms a characteristic 'mini loop'. Cathepsin Z exhibits mono- and di-peptidase activity at	
	its C-terminus, and in contrast to cathepsin B, it does not act as an endopeptidase. It is	
	restricted to the cells of theimmune system, predominantly monocytes, macrophages and	
	dendritic cells. Cathepsin Z is widely expressed in human tissues, suggesting that this enzyme	
	could be involved in the normal intracellular protein degradation taking place in all cell types. It	
	is capable to cleave regulatory motifs at C-terminus affecting the function of targeted	
	molecules. Cathepsin X may regulate also the maturation of dendritic cells, a process, which is	
	crucial in the initiation of adaptive immunity. Furthermore, higher levels of Cathepsin Z are also	
	found in tumour and immune cells of prostate and gastric carcinomas and inmacrophages of	
	gastric mucosa, especially after infection by Helicobacter pylori. Cathepsin Z is also	
	ubiquitously distributed in cancer cell lines and in primary tumors from different sources,	
	suggesting that this enzyme may participate in tumor progression.	
	Synonym: AI787083;AU019819;CTSX;D2Wsu143e	
Molecular Weight:	33.2 kDa	
NCBI Accession:	NP_071720	
Pathways:	Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	

samples are stable at < -20°C for 3 months.

Images



Western Blotting
Image 1.