

Datasheet for ABIN7194686 Cathepsin L2 Protein (CTSL2) (His tag)



Overview	
Quantity:	50 µg
Target:	Cathepsin L2 (CTSL2)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin L2 protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Cathepsin L2/CTSL2 Protein (His Tag)(Active)
Sequence:	Met 1-Val 334
Characteristics:	A DNA sequence encoding the full length of human cathepsin L2 (NP_001324.2) (Met 1-Val 334) was expressed, with a C-terminal polyhistidine tag.

Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate Z-LR-AMC, (R&D Systems,
	Catalog # ES008). The specific activity is >1000 pmoles/min/µg.

> 95 % as determined by reducing SDS-PAGE.

< 1.0 EU per μ g as determined by the LAL method.

Target Details

Endotoxin Level:

Target:

Purity:

Cathepsin L2 (CTSL2)

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Target Details	
Alternative Name:	Cathepsin L2/CTSL2 (CTSL2 Products)
Background:	Background: Cathepsin V (CTSV), also known as Cathepsin L2, CTSL2, and CATL2, is a member
	of the peptidase C1 family. It is predominantly expressed in the thymus and testis. Cathepsin V
	is also expressed in corneal epithelium, and to a lesser extent in conjuctival epithelium and skin.
	It is a lysosomal cysteine proteinase that may play an important role in corneal physiology. It
	has about 75 % protein sequence identity to murine cathepsin L. The fold of this enzyme is
	similar to the fold adopted by other members of the papain superfamily of cysteine proteases.
	Cathepsin V has been recently described as highly homologous to Cathepsin L and exclusively
	expressed in human thymus and testis. Cathepsin V is the dominant cysteine protease in
	cortical human thymic epithelial cells, while Cathepsin L and Cathepsin S seem to be restricted
	to dendritic and macrophage-like cells. Active Cathepsin V in thymic lysosomal preparations
	was demonstrated by active-site labeling. Recombinant Cathepsin V was capable of converting
	li into CLIP efficiently, suggesting that it is the protease that controls the generation of
	alphabeta-CLIP complexes in the human thymus. Cathepsin V is the third elastolytic cysteine
	protease which exhibits the most potent elastase activity yet described among human
	proteases and that it is present in atherosclerotic plaque specimens. Cathepsin L2 may play a
	specialized role in the thymus and testis. Expression analysis of cathepsin L2 in human tumors
	revealed a widespread expression in colorectal and breast carcinomas but not in normal colon
	or mammary gland or in peritumoral tissues. Cathepsin L2 was also expressed by colorectal
	and breast cancer cell lines as well as by some tumors of diverse origin, including ovarian and
	renal carcinomas.
	Synonym: Cathepsin L2, Cathepsin U, Cathepsin V, CTSL2, CATL2, CTSU, CTSV
Molecular Weight:	37.1 kDa
NCBI Accession:	NP_001324
Pathways:	Toll-Like Receptors Cascades
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

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Handling

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.