

## Datasheet for ABIN7194672 CTSC Protein (His tag)



Overview

Quantity:	50 µg
Target:	CTSC
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CTSC protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Cathepsin C/CTSC/DPPI Protein (His Tag)(Active)
Sequence:	Met 1-Leu 463
Characteristics:	A DNA sequence encoding the pro form of human cathepsin C (NP_001805.3) (Met 1-Leu 463) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Arg-7-amido-4- methylcoumarin (GRAMC). The specific activity is >200 pmoles/min/µg.(Activation description: The proenzyme needs to be activated by Cathepsin L for an activated form)

Target Details

Target:	CTSC	
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Target Details		
Alternative Name:	Cathepsin C/CTSC/DPPI (CTSC Products)	
Background:	Background: Cathepsins are proteases found in many types of cells conserved in all animals,	
	which have a vital role in mammalian cellular turnover such as bone resorption. The lysosomal	
	cysteine protease Cathepsin C (CTSC), also known as dipeptidyl peptidase I (DPPI/DPP1),	
	activates a number of granule-associated serine proteases with pro-inflammatory and immune	
	functions by removal of their inhibitory N-terminal dipeptides. This lysosomal exo-cysteine	
	protease belonging to the peptidase C1 family. Active cathepsin C is found in lysosomes as a	
	200- kDa multimeric enzyme. Subunits constituting this assembly all arise from the proteolytic	
	cleavage of a single precursor giving rise to three peptides: the propeptide, the alpha- and the	
	beta-chains. It is a central coordinator for activation of many serine proteases in	
	immune/inflammatory cells. Defects in the Cathepsin C have been shown to be a cause of	
	Papillon-Lefevre disease, an autosomal recessive disorder characterized by palmoplantar	
	keratosis and periodontitis. Cathepsin C plays a key role in the activation of several degradative	
	enzymes linked to tissue destruction in inflammatory diseases. Thus, it is a therapeutic target	
	for the treatment of a number of inflammatory and autoimmune diseases.	
	Synonym: CPPI,DPP-I,DPP1,DPPI,HMS,JP,JPD,PALS,PDON1,PLS	
Molecular Weight:	51 kDa	
NCBI Accession:	NP_001805	
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.	

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