antibodies

Datasheet for ABIN7519747 Cathepsin S Protein (CTSS) (His tag)



Overview

LEH SMGMHSYDLG KGC VTEVKYQGSC MT TAFQYIIDNK G PVSVGVDARH FGE EGYIRMARNK
KGC VTEVKYQGSC MT TAFQYIIDNK G PVSVGVDARH
KGC VTEVKYQGSC MT TAFQYIIDNK G PVSVGVDARH

Endotoxin Level: < 0.1 EU/ μ g of the protein by LAL method.

Biological Activity Comment: Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-

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Product Details

WRK(Dnp)-NH2. The specific activity is >1390 pmol/min/µg.

Target Details

Target:	Cathepsin S (CTSS)	
Alternative Name:	Cathepsin S (CTSS Products)	
Background:	Description: Cathepsin S (CTSS), one of the lysosomal proteinases, has many important	
	physiological functions in the nervous system, especially in process of extracellular matrix	
	degradation and endocellular antigen presentation. Cathepsin S is expressed in the lysosome o	
	antigen presenting cells, primarily dendritic cells, B-cells and macrophages. Cathepsin S is mos	
	well known for its critical function in the proteolytic digestion of the invariant chain chaperone	
	molecules, thus controlling antigen presentation to CD4+ T-cells by major histocompatibility	
	complex (MHC) class II molecules or to NK1.1+ T-cells via CD1 Molecules. Cathepsin S also	
	appears to participate in direct processing of exogenous antigens for presentation by MHC	
	class II to CD4+ T-cells, or in cross-presentation by MHC class I molecules to CD8+ T-cells. In	
	addition, it has been implicated in the pathogenesis of several diseases such as Alzheimer's	
	disease and degenerative disorders associated with the cells of the mononuclear phagocytic	
	system.	
	Name: CTSS	
Gene ID:	1520	
UniProt:	P25774	
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile	
	distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is	
	recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 %	
	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.	
Buffer:	Lyophilized from a 0.22 μm filtered solution of 50 mM MES,100 mM NaCl, pH 6.5.	

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Handling	
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.