Datasheet for ABIN1096245 Cathepsin S Protein (CTSS) (AA 17-331) (His tag)

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Overview

Quantity:	50 µg		
Target:	Cathepsin S (CTSS)		
Protein Characteristics:	AA 17-331		
Origin:	Human		
Source:	Human Cells		
Protein Type:	Recombinant		
Purification tag / Conjugate:	This Cathepsin S protein is labelled with His tag.		
Product Details			
Purpose:	Recombinant Human Cathepsin S/CTSS (C-6His)		
Sequence:	QLHKDPTLDH HWHLWKKTYG KQYKEKNEEA VRRLIWEKNL KFVMLHNLEH SMGMHSYDLG		
	MNHLGDMTSE EVMSLMSSLR VPSQWQRNIT YKSNPNWILP DSVDWREKGC VTEVKYQGSC		
	GACWAFSAVG ALEAQLKLKT GKLVSLSAQN LVDCSTEKYG NKGCNGGFMT TAFQYIIDNK		
	GIDSDASYPY KAMDQKCQYD SKYRAATCSK YTELPYGRED VLKEAVANKG PVSVGVDARH		
	PSFFLYRSGV YYEPSCTQNV NHGVLVVGYG DLNGKEYWLV KNSWGHNFGE EGYIRMARNK		
	GNHCGIASFP SYPEIVDHHH HHH		
Characteristics:	Recombinant Human Cathepsin S/CTSS (C-6His)		

Purity:> 95 % as determined by reducing SDS-PAGE.Sterility:0.2 µm filteredEndotoxin Level:Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

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Target Details			
Target:	Cathepsin S (CTSS)		
Alternative Name:	Cathepsin S (CTSS Products)		
Background:	Recombinant Human Cathepsin S is produced with our mammalian expression system in		
	human cells. The target protein is expressed with the full length sequence of Human CTSS		
	fused with a polyhistidine tag at the C-terminus.		
	Cathepsin S is a lysosomal enzyme that belongs to the papain family of cysteine proteases.		
	This protein is expressed by antigen presenting cells including macrophages, B-lymphocytes,		
	dendritic cells and microglia. Moreover, cathepsin S is expressed in some epithelial cells.		
	Compared with the abundant cathepsins B, L and H, cathepsin S shows a restricted tissue		
	distribution, with highest levels in spleen, heart, and lung. In addition, evidences indicated that		
	cathepsin S generates A β from amyloidogenic fragments of β APP in the		
	endosomal/lysosomal compartment, and is implicated in the pathogenesis of Alzheimer's		
	disease (AD) and Down Syndrome (DS).		
Molecular Weight:	36.89 kDa		
UniProt:	P25774		
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades		
Application Details			

Restrictions:

For Research Use only

Handling

Format:	Liquid		
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g/mL}.$		
	Dissolve the lyophilized protein in ddH20.		
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.		
Buffer:	Supplied as a 0.2 μm filtered solution of 20 mM MES, 150 mM NaCl, 10 % Glycerol, pH 5.5.		
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.		
Storage:	-80 °C		
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.		
	Please minimize freeze-thaw cycles.		
Expiry Date:	6 months		

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