

Datasheet for ABIN7596288
CTSC Protein (AA 25-462) (His tag)



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Overview

Quantity:	500 µg
Target:	CTSC
Protein Characteristics:	AA 25-462
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CTSC protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	DTPANCTYPD LLGTWVFQVG PRSSRSDDNC SVMEATEEKV VVHLKKLDTA YDELGNSGHF TLIYNQGFEI VLNDYKWFAF FKYEVRGHTA ISYCHETMTG WVHDLGRNW ACFVGKKVES HIEKVNMAAA HLGGLQERYE ERLYTHNHNH VKAINTVQKS WTATAYKEYE KMSLRDLIRR SGHSQRIPRP KPAPMTDEIQ QQILNLPESW DWRNVQGVNY VSPVRNQESC GSCYSFASMG MLEARIRILT NNSQTPILSP QEVVSCSPYA QGCDGGFPYL IAGKYAQDFG VVEESCFPYT AKDSPCKPRE NCLRYYSDDY YYVGGFYGGC NEALMKLELV KHGPMVAFAE VHDDFLHYHS GIYHHTGLSD PFNPFELTNH AVLLVG YGRD PVTGIEWII KNSWGSNWGE SGYFRIRRG T DECAIESIAV AAIPKPL
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Product Details

Biological Activity Comment: Specific activity is > 50,000 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of Gly-Arg-AMC per minute at pH 6.0 at 37C.

Target Details

Target: CTSC

Alternative Name: Cathepsin C/DPPI ([CTSC Products](#))

Background: Cathepsin C/DPPI, also known as dipeptidyl peptidase I , is a lysosomal exo-cysteine protease belonging to the peptidase C1 protein family, a subgroup of the cysteine cathepsins. It catalyses excision of dipeptides from the N-terminus of protein and peptide substrates, except if the amino group of the N-terminus is blocked. Also, It appears to be 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. Also, It plays a key role in the activation of several degradative enzymes linked to tissue destruction in inflammatory diseases. Recombinant mouse Cathepsin C, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Molecular Weight: 50.5kDa (444aa)

NCBI Accession: [NP_034112](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.