

Active Recombinant Mouse CTSC Protein, His-tagged

Cat. No. CTSC-05M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CTSC Protein, fused to His-tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	25-462aa
Description	This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate multiple protein products. These products include the dipeptidyl peptidase 1 light, heavy, and exclusion domain chains, which together comprise one subunit of the homotetrameric enzyme. This enzyme has amino dipeptidase activity and may play a role in the activation of granzymes during inflammation. Homozygous knockout mice for this gene exhibit impaired granzyme activation and enhanced survival in a sepsis model.
Form	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	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 37 centigrade.
Molecular Mass	50.5 kDa
AA Sequence	DTPANCTYPD LLGTWVFQVG PRSSRSDINC SVMEATEEKV VVHLKKLDTA

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YDELGNSGHF TLIYNQGFEI VLNDYKWFAF FKYEVRGHTA ISYCHETMTG
 WVHDLVGRNW ACFVGKKVES HIEKVNMMNAA HLGGLQERYE ERLYTHNHNH
 VKAINTVQKS WTATAYKEYE KMSLRDLIRR SGHSQRIPRP KPAPMTDEIQ
 QQILNLPESW DWRNVQGVNY VSPVRNQESC GSCYSFASMG MLEARIRILT
 NNSQTPILSP QEVVSCSPYA QGCDGGFPYL IAGKYAQDFG VVEESCFPYT
 AKDSPCKPRE NCLRYSSDY YYVGGFYGGC NEALMKLELV KHGPMVAFAE
 VHDDFLHYHS GIYHHTGLSD PFNPFELTNH AVLLVGYGRD PVTGIEYWII
 KNSWGSNWGE SGYFRIRRG T DECAIESIAV AAIPKPL

Endotoxin	< 1 EU per 1ug of protein (determined by LAL method).
Purity	> 95%
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	Ctsc cathepsin C [<i>Mus musculus</i> (house mouse)]
Official Symbol	CTSC
Synonyms	Cathepsin C; AI047818; CatC; DP; DPP1; DPPI; Cathepsin J; Dipeptidyl peptidase

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isoform 1; Dipeptidyl peptidase 1; Dipeptidyl transferase; CTSC

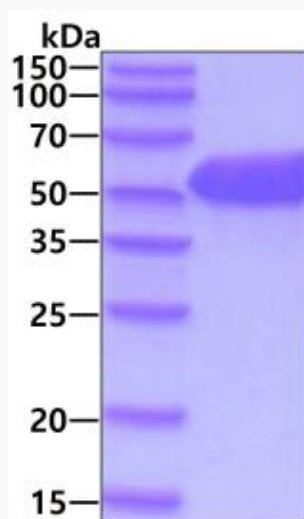
Gene ID [13032](#)

mRNA Refseq [NM_009982](#)

Protein Refseq [NP_034112.3](#)

UniProt ID [P97821](#)

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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