

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 HLGGLQERY S 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

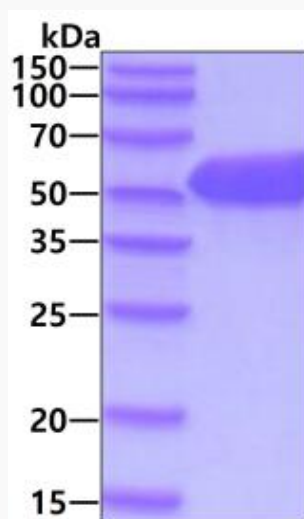
Gene ID [13032](#)

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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