

Recombinant Mouse Ctsc protein, His-tagged

Cat. No. Ctsc-8179M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctsc aa. (Pro231~Leu462 (Accession # P97821)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Pro231~Leu462
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.2kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Ctsc cathepsin C [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ctsc
Synonyms	Ctsc; cathepsin C; CatC; DPP1; DPPI; AI047818; dipeptidyl peptidase 1; cathepsin J; dipeptidyl peptidase I; dipeptidyl transferase
Gene ID	13032
mRNA Refseq	NM_009982.5

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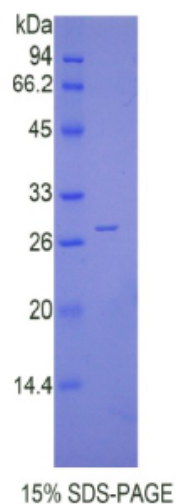
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Protein Refseq NP_034112.3

UniProt ID P97821

SDS-PAGE



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