

Recombinant Mouse Ctss protein, His-tagged

Cat. No. Ctss-1985M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctss aa. (Leu123~Glu339) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Leu123~Glu339
Description	This gene encodes a member of the peptidase C1 (papain) family of cysteine proteases. Alternative splicing results in multiple transcript variants, which encode preproteins that are proteolytically processed to generate mature protein products. This enzyme is secreted by antigen-presenting cells during inflammation and may induce pain and itch via activation of G-protein coupled receptors. Homozygous knockout mice for this gene exhibit impaired wound healing, reduced tumorigenesis in a pancreatic cancer model, and reduced pathogenesis in a myasthenia gravis model.
Form	Freeze-dried powder
Molecular Mass	33kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 92%

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Characteristic	The isoelectric point is 5.6.
Applications	Positive Control; Immunogen; SDS-PAGE; WB
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.
Concentration	200µg/mL
Storage Buffer	10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Ctss cathepsin S [Mus musculus (house mouse)]
Official Symbol	Ctss
Synonyms	Map2k2; mitogen-activated protein kinase kinase 2; MK2; MEK2; Prkmk2; AA589381; dual specificity mitogen-activated protein kinase kinase 2; ERK activator kinase 2; MAP kinase kinase 2; MAP kinase/Erk kinase; MAPK/ERK kinase 2; MAPKK 2; MEK

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2; protein kinase, mitogen activated, kinase 2, p45

Gene ID	13040
mRNA Refseq	NM_001267695.2
Protein Refseq	NP_001254624.2
UniProt ID	F6WR04

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