

Recombinant Mouse Ctss Protein, His-tagged

Cat. No. Ctss-69M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Ctss, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	Ctss, as known as cathepsin S isoform 2, is a lysosomal cysteine protease of the papain family. This protein plays a major role in the processing of the MHC class II-associated invariant chain. It has been implicated in the pathogenesis of several diseases such as Alzheimer's disease and degenerative disorders associated with the cells of the mononuclear phagocytic system. Also, it is less abundant in tissues than Cathepsins B, L and H. The highest levels of this protein have been found in lymph nodes, spleen and phagocytic cells.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	37.2kDa (328aa)28-40KDa (SDS-PAGE under reducing conditions.)
AA Sequence	VAMEQLQRDP TLDYHWDLWK KTHEKEYKDK NEEVRRLIW EKNLKFIMIH NLEYSMG MHT YQVGMNDMGD MTNEEISCRM GALRISRQSP KTVTFRSYSN RTLPTVDWR EKGCVTEVKY QGSCGACWAF SAVGALEGQL KLKTGKLISL SAQNLVDCSN EEKYGNKGCG GGYMTEAFQY IIDNGGIEAD ASYPYKAMDE KCHYNSKNRA ATCSRYIQLP FGDEDALKEA VATKGPVSVG IDASHSSFFF YKSGVYDDPS CTGNVNHGVL VVG YGTLDGK DYWLVKNSWG LNFGDQGYIR

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	MARNKNHCG IASYCSYPEI LEHHHHHHHDY WLVKNSWGLN FGDQGYIRMA RNNKNHCGIA SYCSYPEILE HHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Ctss cathepsin S [Mus musculus]
Official Symbol	Ctss
Synonyms	CTSS; cathepsin S; Cat S;
Gene ID	13040
mRNA Refseq	NM_021281
Protein Refseq	NP_067256
MIM	
UniProt ID	
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen

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processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Tuberculosis, organism-specific biosystem;

Function

cysteine-type endopeptidase activity; cysteine-type peptidase activity; hydrolase activity; peptidase activity;

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