

Recombinant Mouse Ctsa Protein, His-tagged

Cat. No. Ctsa-42M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CTSA, 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	CTSA, also known as lysosomal protective protein isoform b, is a component of the lysosomal multienzyme complex along with beta-galactosidase and sialidase Neu1. It is a multicatalytic enzyme with deamidase and esterase in addition to carboxypeptidase activities.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	52.4kDa (459aa)50-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	<p>APDQDEIDCL PGLAKQPSFR QYSGYLRASD SKHFHYWFVE SQNDPKNSPV VLWLNCGPGC SSLDGLLTEH GPFLIQPDGV TLEYNPYAWNLIANVLYIES PAGVGFSYSD DKMYVTNDTE VAENNYEALK DFFRLFPEYK DNKLFLTGES YAGIYIPTLA VLVMQDPSMN LQGLAVGNGLASYEQNDNSL VYFAYYHGLL GNRLWTSLQT HCCAQNKCNF YDNKDPECVN NLLEVSRIVG KSGLNIIYNLY APCAGGVPGR HRYEDTLVVQDFGNIFTRL P LKRRFPEALM RSGDKVRLDP PCTNTTAPSN YLNNPYVRKA LHIPESLPRW DMCNFLVNLQ YRRLYQSMNS QYLKLLSSQKYQILLYNGDV DMACNFMGDE WFVDSL NQKM EVQRRPWLV D YGESGEQVAG FVKECSHITF LTIK GAGHMV PTDKPRAAFT</p>

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MFSRFLNKEPYVEHHHHHH

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 [Ctsa cathepsin A \[Mus musculus \]](#)

Official Symbol [Ctsa](#)

Synonyms CTSA; cathepsin A; PPCA; Ppgb; AU019505;

Gene ID [19025](#)

mRNA Refseq [NM_001038492](#)

Protein Refseq [NP_001033581](#)


MIM

UniProt ID

Pathway Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system,

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conserved biosystem;

Function

carboxypeptidase activity; hydrolase activity; peptidase activity; protein binding;
serine-type carboxypeptidase activity;

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