

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	APDQDEIDCL PGLAKQPSFR QYSGYLRASD SKHFHYWFVE SQNDPKNSPV VLWLNGGPGC SSLDGLLTEH GPFLIQPDGV TLEYNPYAWNLIANVLYIES PAGVGFSYSD DKMYVTNDTE VAENNYEALK DFFRLFPEYK DNKLFLTGES YAGIYIPTLA VLVMQDPSMN LQGLAVGNGLASYEQNDNSL VYFAYYHGLL GNRLWTSLQT HCCAQNKC NF YDNKDPECVN NLLEVSRIVG KSGLNINLY APCAGGVPGR HRYEDTLVVQDFGNIFTRL P LKRRFPEALM RSGDKVRLDP PCTNTTAPSN YLNNPYVRKA LHIPESLPRW DMCNFLVNLQ YRRLYQSMNS QYLKLLSSQKYQILLYNGDV DMACNFMGDE WFDVSLNQKM EVQRRPWLV D YGESGEQVAG FVKECSHITF LTIKAGAHMV PTDKPRAAFT

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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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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