Active Recombinant Mouse Ctsb Protein, His tagged

Cat. No. Ctsb-28M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CTSB (18-339 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	18-339 aa
Description	CTSB, also known as cathepsin B preproprotein, is a papain-family cysteine protease that is normally located in lysosomes. It has the ability to degrade several extracellular matrix components at both neutral and acidic pH and has been implicated in the progression of several human and rodent tumors progression and arthritis.
Form	Liquid
AASequence	HDKPSFHPLSDDLINYINKQNTTWQAGRNFYNVDISYLKKLCGTVLGGPKLPGRVAF GEDIDLPETFDAREQWSNCPTIGQIRDQGSCGSCWAFGAVEAISDRTCIHTNGRVN VEVSAEDLLTCCGIQCGDGCNGGYPSGAWSFWTKKGLVSGGVYNSHVGCLPYTIP PCEHHVNGSRPPCTGEGDTPRCNKSCEAGYSPSYKEDKHFGYTSYSVSNSVKEIM AEIYKNGPVEGAFTVFSDFLTYKSGVYKHEAGDMMGGHAIRILGWGVENGVPYWLA ANSWNLDWGDNGFFKILRGENHCGIESEIVAGIPRTDQYWGRFLEHHHHHH

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Molecular Mass	36.4 kDa (330aa)
Bio-activity	Specific activity is > 2,000 pmol/min/μg and is defined as the amount of enzyme that hydrolyze 1 pmole of Z-Arg-Arg-AMC to Z-Arg-Arg and AMC per minute at pH 6.0 at 37 centigrade.
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Application	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5 mg/mL (determined by absorbance at 280nm)

GENE INFORMATION

Gene Name	Ctsb cathepsin B [Mus musculus]
Official Symbol	Ctsb
Synonyms	CTSB; cathepsin B; cathepsin B1; CB;
Gene ID	13030
mRNA Refseq	NM_007798

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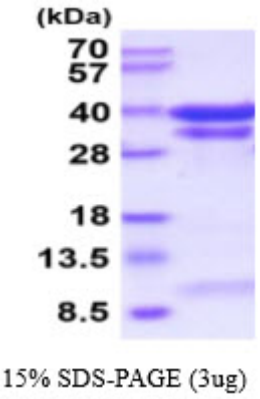
Protein Refseq	NP_031824
UniProt ID	P10605
SDS-PAGE	 15% SDS-PAGE (3ug) 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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