Cathepsin B (CTSB) Sheep Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cathepsin B (CTSB), Recombinant Protein
Full Product Name	Recombinant Sheep Cathepsin B (CTSB)
Product Gene Name	CTSB recombinant protein
Product Synonym Gene Name	Recombinant Cathepsin B (CTSB); Cathepsin B EC= 3.4.22.1; Cathepsin B1
Sequence	LPDSFDAREQ
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	1,177 Da
Sequence Positions	1-10aa; Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P83205
Species	Ovis aries (Sheep)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CTSB recombinant protein	MBS961669 is a recombinant protein targeting CTSB. Also known as Recombinant Sheep Cathepsin B (CTSB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. CTSB
Other Notes	Small volumes of CTSB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSB. It may not necessarily be applicable to this product.

NCBI GI #	29839281
NCBI Accession #	P83205.1
UniProt Primary Accession #	P83205
NCBI Official Full Name	Cathepsin B
UniProt Protein Name	Cathepsin B
UniProt Synonym Protein Names	Cathepsin B1
Protein Family	Cathepsin
UniProt Gene Name	CTSB

UniProt Entry Name	CATB_SHEEP
UniProt Comments for CTSB	Function: Thiol protease which is believed to participate in intracellular degradation and turnover of proteins. Has also been implicated in tumor invasion and metastasis. UniProtKB P00787 Catalytic activity: Hydrolysis of proteins with broad specificity for peptide bonds. Preferentially cleaves -Arg-Arg-|-Xaa bonds in small molecule substrates (thus differing from cathepsin L). In addition to being an endopeptidase, shows peptidyl-dipeptidase activity, liberating C-terminal dipeptides. Subunit structure: Dimer of a heavy chain and a light chain cross-linked by a disulfide bond. Interacts with SRPX2 By similarity. UniProtKB P00787 Subcellular location: Lysosome By similarity. Melanosome By similarity UniProtKB P00787. Sequence similarities: Belongs to the peptidase C1 family.
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