Cathepsin L2 (CTSL2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cathepsin L2 (CTSL2), Recombinant Protein
Full Product Name	Recombinant Human Cathepsin L2 (CTSL2)
Product Gene Name	CTSL2 recombinant protein
Sequence	LPKSVDWRKK GYVTPVKNQK QCGSCWAFSA TGALEGQMFR KTGKLVSLSE QNLVDCSRPQ GNQGCNGGFM ARAFQYVKEN GGLDSEESYP YVAVDEICKY RPENSVANDT GFTVVAPGKE KALMKAVATV GPISVAMDAG HSSFQFYKSG IYFEPDCSSK NLDHGVLVVG YGFEGANSNN SKYWLVKNSW GPEWGSNGYV KIAKDKNNHC GIATAASYPN V
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	37,329 Da
Sequence Positions	114-334, 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.
OMIM	603308
3D Structure	ModBase 3D Structure for O60911
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CTSL2 recombinant protein	This protein, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that may play an important role in corneal physiology. This gene is expressed in colorectal and breast carcinomas but not in normal colon, mammary gland, or peritumoral tissues, suggesting a possible role for this gene in tumor processes.
Other Notes	Small volumes of CTSL2 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.
Searchable Terms for CTSL2 purchase	MBS1226428 is a recombinant protein targeting CTSL2. Also known as Recombinant Human Cathepsin L2 (CTSL2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSL2. It may not necessarily be applicable to this product.

NCBI GI #	320118898
NCBI GeneID	1515
NCBI Accession #	NP_001188504.1

UniProt Primary Accession #	O60911
UniProt Secondary Accession #	O60233; Q2TB86; Q5T1U0
UniProt Related Accession #	O60911
GenBank Nucleotide #	NM_001201575.1
NCBI Official Full Name	cathepsin L2 preproprotein
NCBI Official Synonym Full Names	cathepsin V
NCBI Official Symbol	CTSV
NCBI Official Synonym Symbols	CTSU; CATL2; CTSL2
UniProt Protein Name	Cathepsin L2
UniProt Synonym Protein Names	Cathepsin U; Cathepsin V
UniProt Gene Name	CTSV
UniProt Synonym Gene Names	CATL2; CTSL2; CTSU
NCBI Protein Information	cathepsin L2
NCBI Summary for CTSL2	The protein encoded by this gene, a member of the peptidase C1 family, is a lysosomal cysteine proteinase that may play an important role in corneal physiology. This gene is expressed in colorectal and breast carcinomas but not in normal colon, mammary gland, or peritumoral tissues, suggesting a possible role for this gene in tumor processes. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jan 2011]
UniProt Comments for CTSL2	Cysteine protease. May have an important role in corneal physiology.
Research Articles on CTSL2	**1.** exogenous CTSV inhibited Ang -induced hypertrophy in HCM cells by inhibiting PI3K/Akt/mTOR
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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