

Recombinant Mouse LGMN Protein, His-tagged

Cat. No. LGMN-31M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LGMN, 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	LGMN, also known as legumain, is a lysosomal cysteine protease found in all mouse tissues, but was particularly abundant in kidney and placenta. It plays a pivotal role in the endosomal/lysosomal degradation system because the Legumain deficiency causes the accumulation of pro cathepsins B, H and L, another group of lysosomal cysteine proteases. Over expression of Legumain in tumors is significant for invasion/metastasis.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	48.6kDa (426aa)40-57KDa (SDS-PAGE under reducing conditions)
AA Sequence	VPVGVDDPED GGKHWVVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV VINRPNGTDV YKGV LKDYTGEDVTPENFLA VLRGD AEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV FPNDDLHVKD LNKTIRYMYE HKMYQKMVFY IEACESGSMNHL PDDINVY ATTAANPKES SYACY YDEER GTYLG DWYSV NWMEDSDVED LTKETLHKQY HLVKSHTNTS HVMQYGNKSI STMKVMQFQGMKHRASSPIS LPPVTHLDLT PSPDVPLTIL KRKLLRTNDV KESQNLIGQI QQFLDARHVI EKSVHKIVSL LAGFGETAER

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	HLSERTMLTAHDCYQEAVTH FRTHCFNWHS VTYEHALRYL YVLANLCEAP YPIDRIEMAM DKVCLSHYLE HHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Lgmn legumain [<i>Mus musculus</i>]
Official Symbol	LGMN
Synonyms	LGMN; legumain; preprolegumain; protease, cysteine 1; protease, cysteine, 1; asparaginyl endopeptidase; AEP; Prsc1; AI746452; AU022324;
Gene ID	19141
mRNA Refseq	NM_011175
Protein Refseq	NP_035305
MIM	
UniProt ID	

Pathway

Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D, organism-specific biosystem;

Function

cysteine-type endopeptidase activity; cysteine-type peptidase activity; hydrolase activity; peptidase activity; peptidase activity;

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