

Recombinant Human LGMN protein, His-tagged

Cat. No. LGMN-68H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LGMN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	LGMN, also known as legumain, is a cysteine endopeptidase that shows strict specificity for hydrolysis of asparaginy bonds. It can also cleave aspartyl bonds slowly, especially under acidic conditions. It required for normal lysosomal protein degradation in renal proximal tubules. They are required for normal degradation of internalized EGFR and play a role in the regulation of cell proliferation via its role in EGFR degradation.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	48.4kDa (422aa)40-57kDa (SDS-PAGE under reducing conditions)
AA Sequence	VPIDDPEDGG KHWVVIVAGS NGWYNYRHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ GVPKDYTGEDVTPQNFLAVL RGDAEAVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHMYKHK MYRKMVFYIE ACESGSMMNHLDPNINVYAT TAANPRESSY ACYYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL VKSHTNTSHV MQYGNKTIST MKVMQFQGMKRKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR HLDARHLIEK SVRKIVSLA ASEAEVEQLL

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SERAPLTGHSCYPEALLHFR THCFNWHSPY YEYALRHLYV LVNLCEKPYP
LHRIKLSMDH VCLGHYHHHH HH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >95% 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 1mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name LGMN legumain [Homo sapiens]

Official Symbol LGMN

Synonyms LGMN; legumain; protease, cysteine, 1 (legumain) , PRSC1; LGMN1; cysteine protease 1; protease, cysteine 1; asparaginyl endopeptidase; protease, cysteine, 1 (legumain); AEP; PRSC1;

Gene ID 5641

mRNA Refseq NM_001008530

Protein Refseq NP_001008530

MIM 602620

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UniProt ID	Q99538
Chromosome Location	14q32.12
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem;
Function	cysteine-type endopeptidase activity; cysteine-type endopeptidase activity; peptidase activity;

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