

## Recombinant Human LGMN protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human LGMN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	<p>LGMN, also known as legumain, is a cysteine endopeptidase that shows strict specificity for hydrolysis of asparaginyl 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.</p>
<b>Form</b>	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
<b>Molecular Mass</b>	48.4kDa (422aa)40-57kDa (SDS-PAGE under reducing conditions)
<b>AA Sequence</b>	<p>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 SVRKIVSLLA ASEAEVEQLL</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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](#)

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

<b>UniProt ID</b>	Q99538
<b>Chromosome Location</b>	14q32.12
<b>Pathway</b>	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;
<b>Function</b>	cysteine-type endopeptidase activity; cysteine-type endopeptidase activity; peptidase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA