

Recombinant Human LGMN, His-tagged

Cat. No. LGMN-7977H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Legumain produced by transfected human cells is a secreted protein with sequence (Ile18Tyr433) of Human Legumain fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	Legumain is a lysosomal cysteine protease which is a member of the peptidase C13 family. Though it is found in many tissues, it is highly expressed in the kidney, heart, and placenta. Legumain has a strict specificity for hydrolysis of asparaginyl bonds and can also cleave aspartyl bonds slowly, especially under acidic conditions. Overexpression Legumain in tumors is significant for invasion and metastasis. In addition, Legumain may be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system and negative regulation of neuron apoptosis.
Form	Supplied as a 0.2 µM filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 8.0
AA Sequence	IPIDDPEDGG KHWVVIVAGS NGWYNRYHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIV INRPNGTDVY QGVPKDYTGE DVTPQNFLAV LRGDAEAVKG IGSGKVLKSG P QDHVFIYF TDHGSGILV FPNEDLHVKD LNETIHYMYK HKMYRKMVFY IEACESGSMM NH LPDNINV YATTAANPRE

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SSYACYYDEK RSTYLGDWYS VNMEDSDVE DLTKETLHKQ YHL VKSHTN
TSHVMQYGNK

Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Store at less than 20°C. stable for 6 months after receipt. Please minimize freezethaw cycles.

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
UniProt ID	Q99538
Chromosome Location	14q32.12

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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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