

Recombinant Human LGMN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LGMN-3669H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LG MN MS Standard C13 and N15-labeled recombinant protein (NP_005597) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asparaginyl bonds. This enzyme may be involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expression occurs after monocytes differentiate into dendritic cells. A fully mature, active enzyme is produced following lipopolysaccharide expression in mature dendritic cells. Overexpression of this gene may be associated with the majority of solid tumor types. This gene has a pseudogene on chromosome 13. Several alternatively spliced transcript variants have been described, but the biological validity of only two has been determined. These two variants encode the same isoform.
Molecular Mass	49.4 kDa
AA Sequence	MVWKVAVFLSVALGIGAIPDDPEDGGKHWVVIVAGSNGWYNRYHQADACHAYQIIH RNGIPDEQIVMMYDDIAYSEDNPTPGIVINRPNGTDVYQGVPKDYTGEDVTPQNFL

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AVLRGDAEAVKGIGSGKVLKSGPQDHVFIYFTDHGSTGILVFPNEDLHVKDLNETIHY
 MYKHKMYRKMFYIEACESGSMNHLDPNINVYATTAANPRESSYACYYDEKRSTY
 LGDWYSVNWMEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKTISTMKVMQF
 QGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTEEIQRHLD
 ARHLIEKSVRKIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPY
 EYALRHLYVLVNLCEKPYPLHRIKLSMDHVCLGHYSGPTRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name LGMN legumain [Homo sapiens (human)]

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

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mRNA Refseq [NM_005606](#)

Protein Refseq [NP_005597](#)

MIM [602620](#)

UniProt ID [Q99538](#)

SDS-PAGE



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