

Recombinant Human LGMN Protein

Cat. No. LGMN-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LGMN Protein without tag was expressed in Leishmania.
Species	Human
Source	Leishmania
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.
Form	Liquid
Molecular Mass	36 kDa
Purity	> 90 % (SDS-PAGE)
Stability	Shelf Life: 12 months

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Storage	Store at -20 centigrade. Avoid freeze/thaw cycles.
Concentration	500 µg/mL
Storage Buffer	20 mM citric acid pH 4.0, 100 mM NaCl, 2 mM DTT
Shipping	Gel packs

GENE INFORMATION

Gene Name	LGMN legumain [Homo sapiens (human)]
Official Symbol	LGMN
Synonyms	LGMN; legumain; AEP; LGMN1; PRSC1; legumain; asparaginyl endopeptidase; cysteine protease 1; protease, cysteine 1; protease, cysteine, 1 (legumain); EC 3.4.22.34
Gene ID	5641
mRNA Refseq	NM_005606
Protein Refseq	NP_005597
MIM	602620
UniProt ID	Q99538

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