

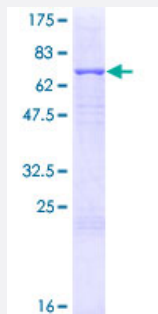
Full-Length

LGMN (Human) Recombinant Protein (P01)

Catalog # H00005641-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human LGMN full-length ORF (AAH03061.1, 1 a.a. - 433 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MVWKVAVFLSVALGIGAIPIDDPEDGGKHVVVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIV
VMMYDDIAYSEDNPTPGVINRPNGTDVYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKGIGSGKVL
KSGPQDHVFIYFTDHGSTGILVFPNEDLHVKDLNETIHYMYKHKMYRKMVFYIEACESGSMNNHLP
DNINVYATTAANPRESSYACYDEKRSTYLGDWYSVNWMESSDVEDLTKETLHKQYHLVKSHTNT
SHVMQYGNKTISTMKVMQFQGMKRKASSPVLPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESR
QLTEEIQRHLDARHLIEKSVRKIVSLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHS
PTYEYALRHLVVLNLCCKPYPLHRIKLSMDHVCLGHY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.15

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — LGMN

Entrez GeneID [5641](#)

GeneBank Accession# [BC003061](#)

Protein Accession# [AAH03061.1](#)

Gene Name LGMN

Gene Alias AEP, LGMN1, PRSC1

Gene Description legumain

Omim ID [602620](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations asparaginyl endopeptidase|cysteine protease 1|protease, cysteine, 1 (legumain)

Pathway

- [Antigen processing and presentation](#)
- [Lysosome](#)