

Product datasheet for **TP324975**

Legumain (LGMN) (NM_005606) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human legumain (LGMN), transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC224975 protein sequence
Red=Cloning site **Green**=Tags(s)

MVWKVAVFLSVALGIGAIPDDPEDGGKHWWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVVM
M
YDDIAYSEDNPTPGIVINRPNGTDVYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKGIGSGKVLKSGPQDH
VFIYFTDHGSTGILVFPNEDLHVKDLNETIHMYKHKMYRKMVFYIEACESGSMNHLPDNINVYATTAA
NPRESSYACYDEKRSTYLGDWYSVNW MEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKTISTMK
V
MQFQGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTEEIQRHLDARHLIEKSVR
KIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPTYEYALRHLYVLNLCEKPYPLHR
IKLSMDHVCLGHY

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 47.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

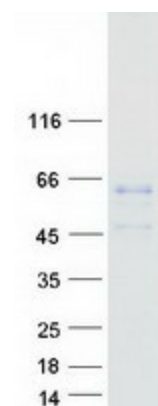
Storage: Store at -80°C.



[View online »](#)

| | |
|--------------------------|--|
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_005597 |
| Locus ID: | 5641 |
| UniProt ID: | Q99538 |
| RefSeq Size: | 2073 |
| Cytogenetics: | 14q32.12 |
| RefSeq ORF: | 1299 |
| Synonyms: | AEP; LGMN1; PRSC1 |
| 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, Jul 2008] |
| Protein Families: | Druggable Genome, Protease |
| Protein Pathways: | Antigen processing and presentation, Lysosome |

Product images:



Coomassie blue staining of purified LGMN protein (Cat# TP324975). The protein was produced from HEK293T cells transfected with LGMN cDNA clone (Cat# [RC224975]) using MegaTran 2.0 (Cat# [TT210002]).