

## Product datasheet for **TP324975M**

### Legumain (LGMN) (NM\_005606) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human legumain (LGMN), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224975 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MWVKVAVFLSVALGIGAIPIDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVMM  
YDDIAYSEDNPTPGIVINRPNGTDVYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKIGSGKVLKSGPQDH  
VFIYFTDHGSTGILVFPNEDLHVKDLNETIHYMYKHKMYRKMVFYIEACESGSMNHLDPNINVYATTA  
NPRESSYACYDEKRSTYLGDWYSVNW MEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKTISTMKV  
MQFQGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTEEIQRHLDARHLIEKSVR  
KIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPTYEYALRHLYVLVNLCEKPYPLHR  
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.
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:	<a href="#">NP_005597</a>



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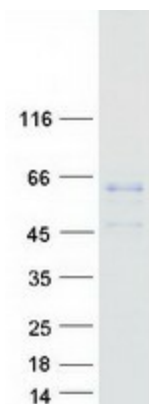
Locus ID: 5641  
UniProt ID: [Q99538](#), [Q53XC6](#), [Q96CY7](#)  
RefSeq Size: 2073  
Cytogenetics: 14q32.12  
RefSeq ORF: 1299  
Synonyms: AEP; LGMN1; PRSC1

**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]).