

OriGene Technologies, Inc.

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Product datasheet for PH324975

Legumain (LGMN) (NM_005606) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards	
Description:	LGMN MS Standard C13 and N15-labeled recombinant protein (NP_005597)	
Species:	Human	
Expression Host:	HEK293	
Expression cDNA Clone or AA Sequence:	RC224975	
Predicted MW:	49.4 kDa	
Protein Sequence:	<pre>>RC224975 protein sequence Red=Cloning site Green=Tags(s)</pre>	
	MVWKVAVFLSVALGIGAIPIDDPEDGGKHWVVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVVMM YDDIAYSEDNPTPGIVINRPNGTDVYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKGIGSGKVLKSGPQDH VFIYFTDHGSTGILVFPNEDLHVKDLNETIHYMYKHKMYRKMVFYIEACESGSMMNHLPDNINVYATTAA NPRESSYACYYDEKRSTYLGDWYSVNWMEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKTISTMKV MQFQGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTEEIQRHLDARHLIEKSVR KIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPTYEYALRHLYVLVNLCEKPYPLHR IKLSMDHVCLGHY	
	SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Tag:	C-Myc/DDK	
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining	
Concentration:	>0.05 µg/µL as determined by microplate BCA method	
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine	
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3	
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.	
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.	
RefSeq:	<u>NP 005597</u>	
RefSeq Size:	2073	
RefSeq ORF:	1299	
Synonyms:	AEP; LGMN1; PRSC1	



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	main (LGMN) (NM_005606) Human Mass Spec Standard – PH324975	
Locus ID:	5641	
UniProt ID:	<u>Q99538, Q53XC6, Q96CY7</u>	
Cytogenetics:	14q32.12	
Summary: This gene encodes a cysteine protease that has a strict specificity for hydrolysis of asp bonds. This enzyme may be involved in the processing of bacterial peptides and ender proteins for MHC class II presentation in the lysosomal/endosomal systems. Enzyme activation is triggered by acidic pH and appears to be autocatalytic. Protein expressio after monocytes differentiate into dendritic cells. A fully mature, active enzyme is pro following lipopolysaccharide expression in mature dendritic cells. Overexpression of may be associated with the majority of solid tumor types. This gene has a pseudogen chromosome 13. Several alternatively spliced transcript variants have been described biological validity of only two has been determined. These two variants encode the sa isoform. [provided by RefSeq. Jul 2008]		
Protein Families	: Druggable Genome, Protease	
Protein Pathway	Antigen processing and presentation, Lysosome	

Product images:

116		
66	_	
45	_	
35	_	
25	_	
18	_	
14	-	

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]).

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