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Product datasheet for TP720320M

Legumain (LGMN) (NM_001008530) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human legumain (LGMN), transcript variant 2
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	lle18-Tyr433
Tag:	C-His
Predicted MW:	48.7 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per μ g protein as determined by LAL test
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<u>NP 001008530</u>
Locus ID:	5641
UniProt ID:	<u>Q99538, Q53XC6</u>
Cytogenetics:	14q32.12
Synonyms:	AEP; LGMN1; PRSC1



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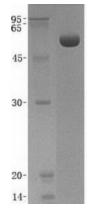
CRIGENE Legumain (LGMN) (NM_001008530) Human Recombinant Protein – TP720320M

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:



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