

Legumain Protein, Cynomolgus, Recombinant (E. coli, His & Myc)

General Information

Synonyms:	LGMN;Asparaginyl endopeptidase;Protease, cysteine 1;PRSC1;Legumain
Protein Construction:	18-323 aa
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	Q4R4T8
Molecular Weight:	39.7 kDa (predicted)
AA Sequence:	VPIDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVVMYDDIAYSEDNPTPGIVINR PNGTDVYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKIGSGKVLKSGPQDHFVYFTDHGSGTILVFPNEDL HVKDLNETIYYMYKHKMYRKMVFYIEACESGSMNHLDPNINVYATTAANPRESSYACYDEKRSTYLGDW YSVNWMEDSDVEDLTKETLHKQYHLVKSHNTNTSHVMQYGNKTISTMKVMQFQGMKHKASSPLSLPPVTHL DLTPSPDVPLTIMKRKLMNTN

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. Required for normal lysosomal protein degradation in renal proximal tubules. Required for normal degradation of internalized EGFR. Plays a role in the regulation of cell proliferation via its role in EGFR

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degradation. May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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