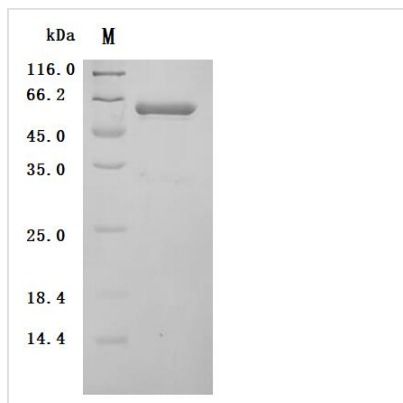




# Recombinant Human Legumain (LGMN) (Active)

<b>Product Code</b>	CSB-MP012903HU(A4)
<b>Abbreviation</b>	Recombinant Human LGMN protein (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q99538
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, N-carbobenzyloxy-Ala-Ala-Asn-7-amido-4-methylcoumarin (Z-AAN-AMC). The specific activity is >400 pmol/min/µg.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.
<b>Sequence</b>	VPIDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVVM MYDDIAYSEDNPTPGIVINRPNGTDVYQQGVPKDYTGEDVTPQNFLAVLRGDAE AVKGIGSGKVLKSGPQDHFVFIYFTDHGSTGILVFPNEDLHVKDLNETIHMYMKH KMYRKMVFYIEACESGSMNHLPDNIINVYATTAANPRESSYACYDEKRSTYL GDWYSVNW MEDSDVEDLTKETLHKQYHLVKSHNTNTSHVMQYG NKTISTMKV MQFQGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMNTNDLEESRQLTE EIQRHLDARHLIEKSVRKIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRT HCFNWHSPTYEYALRHLYVLVNLCEKPYPLHRIKLSMDHVCLGHY
<b>Source</b>	Mammalian cell
<b>Target Names</b>	LGMN
<b>Expression Region</b>	18-433aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal 10xHis-tagged
<b>Mol. Weight</b>	49.0 kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Human LGMN (CSB-MP012903HU(A4))	0.25µg/well
Substrate	Z-Ala-Ala-Asn-AMC (T31496-5mg)	100µM
Activation Buffer	0.1 M NaOAc, 0.1 M NaCl, pH 4.0	/
Assay Buffer	50 mM MES, 250 mM NaCl, pH 5.0	/
Reaction system	/	100µl
Reaction conditions	5min in dark	/
Enzyme activity unit	>400 pmol/min/µg	/

#### Activity

Measured by its ability to cleave the fluorogenic peptide substrate, N-carbobenzyloxy-Ala-Ala-Asn-7-amido-4-methylcoumarin (Z-AAN-AMC). The specific activity is >400 pmol/min/µg.

#### Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

#### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

#### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.