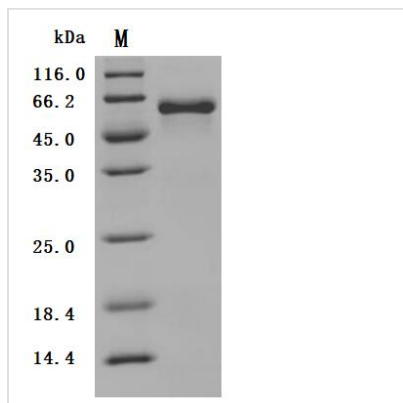




Recombinant Mouse Legumain (Lgmn) (Active)

Product Code	CSB-MP012903MO1
Abbreviation	Recombinant Mouse Lgmn protein (Active)
Storage	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.
Uniprot No.	O89017
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Biological 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.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	VPVGVDDPEDGGKHWVVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIIV MMYDDIANSEENPTPGVVINRPNGTDVYKGVLDYTGEDVTPENFLAVLRGDA EAVKKGKSGKVLKSGPRDHVFIYFTDHGATGILVFPNDDLHVKDLNKTIRYMYE HKMYQKMVFYIEACESGSMNHLPPDDINVYATTAANPKESSYACYDEERT YLGDWYSVNW MEDSDVEDLTKETLHKQYHLVKSHTNTSHVMQYGNKSISTM KVMQFQGMKHRASSPISLPPVTHLDLTPSPDVPLTILKRKLLRTNDVKESQNL GQIQQLDARHVIEKSVHKIVSLLAGFGETAERHLSERTMLTAHDCYQEAVTHF RTHCFNWSVTYEHALRYLYVLANLCEAPYDRIEMAMDKVCLSHY
Source	Mammalian cell
Target Names	Lgmn
Expression Region	18-435aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	49.0 kDa
Protein Length	Full Length
Image	



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

Enzyme	Mouse Lgmn (CSB-MP012903MO1)	0.625 µg/well
Substrate	Z-Ala-Ala-Asn-AMC (T31496-5mg)	100 µM
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	/	100 µl
Reaction conditions	5 min 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.