Recombinant Mouse Legumain (Lgmn)

Product Code	CSB-EP012903MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O89017
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	VPV GVDDPEDGGK HWVVIVAGSN GWYNYRHQAD ACHAYQIIHR NGIPDEQIIV MMYDDIANSE ENPTPGVVIN RPNGTDVYKG VLKDYTGEDV TPENFLAVLR GDAEAVKGKG SGKVLKSGPR DHVFIYFTDH GATGILVFPN DDLHVKDLNK TIRYMYEHKM YQKMVFYIEA CESGSMMNHL PDDINVYATT AANPKESSYA CYYDEERGTY LGDWYSVNWM EDSDVEDLTK ETLHKQYHLV KSHTNTSHVM QYGNKSISTM KVMQFQGMKH RASSPISLPP VTHLDLTPSP DVPLTILKRK LLRTN
Source	E.coli
Target Names	Lgmn
Protein Names	Recommended name: Legumain EC= 3.4.22.34 Alternative name(s): Asparaginyl endopeptidase Protease, cysteine 1
Expression Region	18-325
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
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.