

Recombinant Mouse Asparaginyl endopeptidase/Legumain Protein

Catalog No.: RP01579 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	19141	O89017

Tags

C-His

Synonyms

AEP; Prsc1;LGMN

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg


Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The Mammalian Legumain, also known as LGMN, also called asparaginyl endopeptidase (AEP), is a cysteine protease belonging to peptidase family C13 with strict specificity for hydrolysis of asparaginyl bonds. Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system. 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 degradation.

Basic Information

Description

Recombinant Mouse Asparaginyl endopeptidase/Legumain Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val18-Tyr435) of mouse Asparaginyl endopeptidase/Legumain (Accession #NP_035305.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave the fluorogenic peptide substrate, N-carbobenzyloxy-Ala-Ala-Asn-7-amido-4-methyl coumarin(Z-AAN-AMC). The specific activity is > 107 pmol/min/μg.

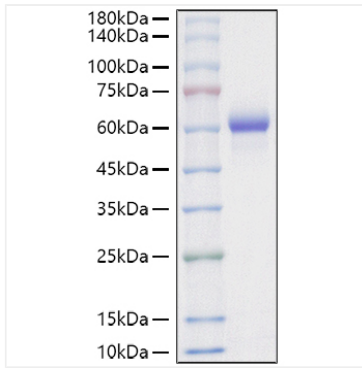
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse Asparaginyl endopeptidase/Legumain Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60 kDa.