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Datasheet for ABIN7535954
LG MN Protein (His tag)

Overview

Quantity:	100 µg
Target:	LG MN
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This LG MN protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Mouse Asparaginyl endopeptidase/Legumain Protein
Sequence:	VPVGDDPED GGKHWVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV VINRPN GTDV YKGV LKDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV FPND DLHVKD LNK TIRYMYE HKMYQKMVFY IEACESGSM NHL PDDIN VY ATTAANPKES SYACY YDEER GTY LGDWYSV NWMEDSDVED LTKETLHKQY HLVKSHTNTS HVMQYGNKSI STMKVMQFQG MKHRASSPIS LPPVTHL DLT PSPDVPLTIL KRKLLRTNDV KESQNLIGQI QQFLDARHVI EKSVHKIVSL LAGFGETAER HLSERTMLTA HDCYQEAVTH FRTHCFNWS VTYEHALRYL YVLANLCEAP YPIDRIEMAM DKVCLSHY
Specificity:	Val18-Tyr435
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Product Details

Biological Activity Comment: 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.

Target Details

Target:	LGMN
Alternative Name:	Asparaginyl endopeptidase/Legumain (LGMN Products)
Background:	<p>Description: 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.</p> <p>Name: AEP, Prsc1,LGMN</p>
Gene ID:	19141
UniProt:	O89017
Pathways:	Metabolism of Steroid Hormones and Vitamin D , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
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.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

Handling

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.