

Recombinant human Legumain/Asparaginyl Endopeptidase protein

Catalog Number: ATGP3185

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-433aa

UniProt No.

Q99538

NCBI Accession No.

NP_005597

Alternative Names

LGMN, AEP, LGMN1, PRSC1

PRODUCT SPECIFICATION

Molecular Weight

48.4 kDa (422aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LGMN, also known as legumain, is a cysteine endopeptidase that shows strict specificity for hydrolysis of asparaginyl bonds. It can also cleave aspartyl bonds slowly, especially under acidic conditions. It required for normal lysosomal protein degradation in renal proximal tubules. They are required for normal degradation of internalized EGFR and play a role in the regulation of cell proliferation via its role in EGFR degradation.

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Recombinant human LGMN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

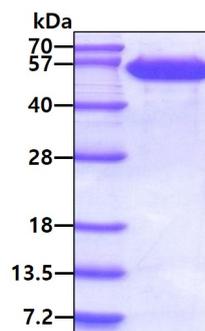
VPIDDPEDGG KHWVVIVAGS NGWYNYRHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ
GVPKDYTGED VTPQNFLAVL RGDAEAVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHMYKHK
MYRKMFVYIE ACESGSMNH LPDNINVYAT TAANPRESSY ACYYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL
VKSHNTSHV MQYGNKTIST MKVMQFQGMK RKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR
HLDARHLIEK SVRKIVSLLA ASEAEVEQLL SERAPLTGHS CYPEALLHFR THCFNWSHPT YEYALRHLYV LVNLCEKPYP
LHRIKLSMDH VCLGHY<HHHH HH>

General References

Dall E., et al. (2012) Proc Natl Acad Sci U S A. 110:10940-10945.
Chen JM., et al. (1996) J Biol Chem. 272:8090-8098.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.