

Recombinant mouse Legumain/Asparaginyl Endopeptidase protein

Catalog Number: ATGP3295

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

18-435aa

UniProt No.

O89017

NCBI Accession No.

NP_035305

Alternative Names

Legumain, AEP, AI746452, AU022324, Prsc1

PRODUCT SPECIFICATION

Molecular Weight

48.6 kDa (426aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 90% 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

LGMMN, also known as legumain, is a lysosomal cysteine protease found in all mouse tissues, but was particularly abundant in kidney and placenta. It plays a pivotal role in the endosomal/lysosomal degradation system because the Legumain deficiency causes the accumulation of pro cathepsins B, H and L, another group of lysosomal cysteine proteases. Over expression of Legumain in tumors is significant for invasion/metastasis. Recombinant

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

Amino acid Sequence

VPVGDDDPED GGKHWVVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV VINRPNGTDV
YKGVLDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV FPNDDLHVKD LNKTIYMYE
HKMYQKMFY IEACESGSMM NHLPDDINVY ATTAANPKES SYACYDEER GTYLGDWYSV NWMEDSDVED LTKETLHKQY
HLVKSHTNTS HVMQYGNKSI STMKVMQFQG MKHRASSPIS LPPVTHLDTL PSPDVPLTIL KRKLLRTNDV KESQNLIGQI
QQFLDARHVI EKSVMKIVSL LAGFGETAER HLSERTMLTA HDCYQEAVTH FRTHCFNWHS VTYEHALRYL YVLANLCEAP
YPIDRIEMAM DKVCLSHYLE HHHHHH

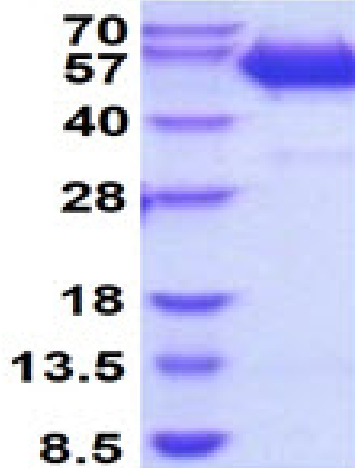
General References

Shirahama-Noda K., et al. (2003) J. Biol. Chem. 278:33194-33199.
Liu C., et al. (2003) Cancer Res. 63:2957-2964.

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)