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
LGMN, 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

Recombinant mouse Legumain/Asparaginyl Endopeptidase protein

Catalog Number: ATGP3295

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

Amino acid Sequence

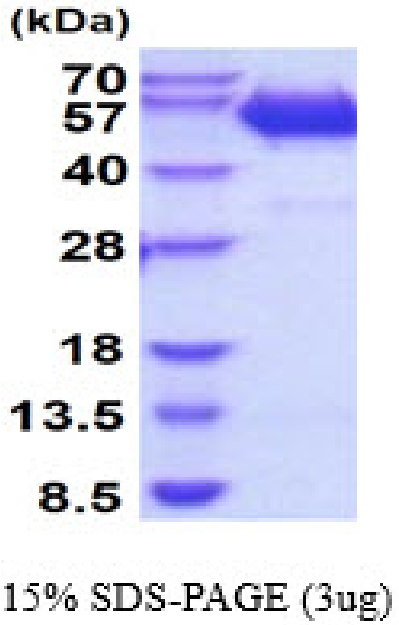
VPVGVDDPED GGKHWVVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV VINRPNGTDV YKGVLKDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV FPNDDLHVKD LNKTIRYMYE HKMYQKMVFY IEACESGSMM NHLPDDINVY ATTAANPKES SYACYYDEER GTYLGDWYSV NWMEDSDVED LTKETLHKQY HLVKSHTNTS HVMQYGNKSI STMKVMQFQG MKHRASSPIS LPPVTHLDLT PSPDVPLTIL KRKLLRTNDV KESQNLIGQI QQFLDARHVI EKSVHKIVSL 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



15% SDS-PAGE (3ug)

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