

Product information

Legumain, 18-433aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3185

NCBI Accession No.: NP_005597

Synonyms: LGMN, AEP, LGMN1, PRSC1

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

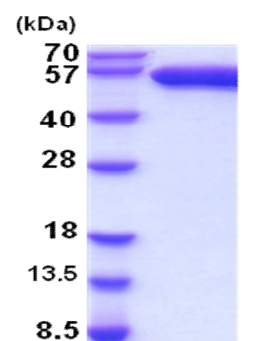
Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 48.4kDa (422aa)
40-57kDa (SDS-PAGE under reducing conditions)

Purity: > 95% by SDS – PAGE.

Concentration: 1mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

VPIDDPEDGG KHWVIVAGS NGWYNRHHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ GVPKDYTGED
VTPQNFLAVL RGDAAEVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHMYKHK MYRKMFVYIE ACESGSMNH
LPDNI NVYAT TAANPRESSY ACYYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL VKSHTNTSHV MQYGNKTIST MKVMQFQGMK
RKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR HLDARHLIEK SVRKIVSLLA ASEAEVEQLL SERAPLTGHS
CYPEALLHFR THCFNWHSPY YEYALRHLVY LVNLCEKPYL LHRIKLSMDH VCLGHYHHHH 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.