

## 32-6835: LGMN Mouse

**Alternative Name :** Legumain, Asparaginyl endopeptidase, Protease, cysteine 1.

### Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

Legumain, also known as LGMN is a lysosomal cysteine protease which is found in all mouse tissues, however it was mainly abundant in the kidney as well as placenta. LGMN plays an essential role in the endosomal/lysosomal degradation system as the Legumain deficiency causes the accumulation of pro cathepsins B, H & L, another group of lysosomal cysteine proteases. Furthermore, over expression of LGMN in tumors is important for invasion/metastasis.

LGMN produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 426 amino acids (18-435a.a.) and having a molecular mass of 48.6kDa.Å (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). LGMN is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** LGMN protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** VPGVDDPED GSKHWVVIVA GSNWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV  
VINRPNGTDV YKGVLDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV  
FPNDLHVKD LNKTIRYMYE HKMYQKMFVY 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.