

## 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

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 2 µg / 10 µg   |
| <b>Purification :</b>      | Greater than 90.0% as determined by SDS-PAGE.  |
| <b>Content :</b>           | LGMN protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.   |
| <b>Storage condition :</b> | 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.   |
| <b>Amino Acid :</b>        | VPVGDDPED GGKHVVVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQ IIVMMYDDIA NSEENPTPGV<br>VINRPNGTDV YKGVLDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKS GPRDHVFIYF TDHGATGILV<br>FPNDDLHVVD LNKTIYRMYE HKMYQKMFY IEACESGSMM NHLPDDINVV ATTAANPKES SYACYYDEER<br>GTYLGDWYSV NWMEDSDVED LTKETLHKQY HLVKSHTNTS HVMQYGNKSI STMKVMQFQG<br>MKHRASSPIS LPPVTHLDLT PSPDVPLTIL KRKLLRTNDV KESQNLIGQI QQFLDARHVI EKSVHKIVSL<br>LAGFGETAER HLSERTMLTA HDCYQEAETH FRTHCFNWHS VTYEHALRYL YVLANLCEAP YPIDRIEMAM<br>DKVCLSHYLE HHHHHH. |