

**LGMN, 18-435aa, Mouse, His tag, Insect cell**

**Cat.NO.: TP02821**

3th Edition

**Synonyms:** Legumain, AEP, A1746452, AU022324, Prsc1

**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 mouse 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:** 48.6kDa (426aa), 40-57kDa (SDS-PAGE under reducing conditions)

**Sequences:**

VPVGDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIIVMMYDDIANSEENPTPGVVINRPN  
GTDVYKGVKDYTGEDVTPENFLAVLRGDAEAVKKGKSGKVLKSGPRDHVFIYFTDHGATGILVFPNDDLHVKDLN  
KTIRYMYEHKMYQKMFYIEACESGSMNHLPDDINVYATTAANPKESSYACYDEERGTYLGDWYSVNW MEDS  
DVEDLTKETLHKQYHLVKSHNTSHVMQYGNKSISTMKVMQFQGMKHRASSPISLPPVTHLDLTPSPDVPLTILKRK  
LLRTNDVKESQNLIGQIQFLDARHVIEKSVHKIVSLLAGFGETAERHLSERTMLTAHDCYQEAVTHFRTHCFNWHS  
VTYEHALRYLYVLANLCEAPYPIDRIEMAMDKVCLSHYLEHHHHHH

**Purity:** > 95% by HPLC

**Concentration:** 0.5mg/ml (determined by Absorbance at 280nm)

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

**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.