

**Legumain, 18-433aa, Human, His tag, Insect cell**

**Cat.NO.: TP02801**

3th Edition

**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 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)

**Sequences:**

VPIDDPEDGGKHWVIVAGSNGWYNYRHQADACHAYQIIHRNGIPDEQIVVMYDDIAYSEDNPTPGIVINRPNNGTD  
VYQGVPKDYTGEDVTPQNFLAVLRGDAEAVKIGSGKVLKSGPQDHFVFIYFTDHGSTGILVFPNEDLHVKDLNETIH  
YMYKHKMYRKMVFYIEACESGSMNHLPDNINVYATTAANPRESSYACYDEKRSTYLGDWYSVNW MEDSDVED  
LTKETLHKQYHLVKSHNTNTSHVMQYGKNTISTMKVMQFQGMKRKASSPVPLPPVTHLDLTPSPDVPLTIMKRKLMN  
TNDLEESRQLTEEIQRHLDARHLIEKSVRKIVSLLAASEAEVEQLLSERAPLTGHSCYPEALLHFRTHCFNWHSPTYE  
YALRHLYVLVNLCEKPYPLHRIKLSMDHVCLGHYHHHHHH

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.