

# Mouse LGMN Protein

Cat. No. LGM-MM101

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Mouse LGMN Protein is expressed from HEK293 with His tag at the N-Terminus.<br>It contains Val18-Tyr435.               |
| <b>Accession</b>        | O89017   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 48.6 kDa. Due to glycosylation, the protein migrates to 55-60 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per $\mu\text{g}$ by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

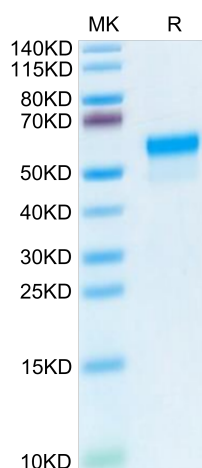
|                    |  |
|--------------------|--|
| <b>Formulation</b> | Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).  |
| <b>Storage</b>     | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Recently, functional studies have demonstrated that legumain (LGMN) cleaves both amyloid  $\beta$ -protein precursor and tau, promoting senile plaques and formation of neurofibrillary tangles, which may play a crucial role in the pathogenesis of Alzheimer's disease (AD). In single-variant association analysis, none of the common variants in LGMN were statistically significant. In gene-based analysis, the LGMN gene also showed no association with AD.

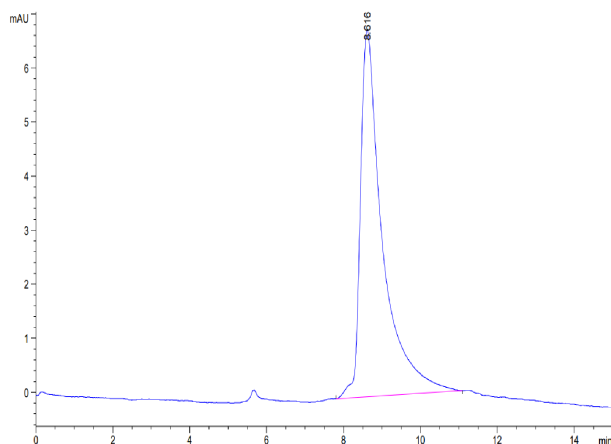
## Assay Data

### Bis-Tris PAGE



Mouse LGMN on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Mouse LGMN is greater than 95% as determined by SEC-HPLC.