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## Product Data Sheet

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Product Name: LGMN Mouse  
 Cat. No.: GP21880  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Legumain; Asparaginyl endopeptidase; Protease; cysteine 1.		
Amino Acid Sequence	VPVGVDDPED GGKHWVIVA GSNGWYNYRH QADACHAYQI IHRNGIPDEQIIVMMYDDIA NSEENPTPGV VINRPNGTDV YKGVLDYTG EDVTPENFLA VLRGDAEAVK GKGSGKVLKSGPRDHVFIYF TDHGATGILV FPNDLHVKD LNKTI RYMYE HKMYQKMFY IEACESGSMNHL PDDIN VY ATTAANPKES SYACYYDEER GTYLGDWYSV NWMEDSDVEDLTKETLHKQY HLVKSHNTS HVMQYGNKSI STMKVMQFQG MKHRASSPIS LPPVTHLDLT PSPDVPLTILKRKLLRTNDV KESQNLIGQI QQFLDARHVI EKSVHKIVSL LAGFGETAER HLSERTMLTAHDCYQEAVTH FRTHCFNWHS VTYEHALRYL YVLANLCEAP YPIDRIEMAMDKVCLSHYLE HHHHHH.		
Formulation	LGMN protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

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, overexpression of LGMN in tumors is important for invasion/metastasis.

### Stability

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

LG MN 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. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). LG MN is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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