# Recombinant Protein Technical Manual

## Recombinant Mouse Legumain/LGMN Protein (His Tag)

**RPES4726**

## Product Data:

**Product SKU:** RPES4726

**Size:** 10µg

**Species**: Mouse

**Expression host:** Human Cells

**Uniprot:** NP_035305.1

## Protein Information:

| | |
|---|---|
| **Molecular Mass:** | 48.7 kDa |
| **AP Molecular Mass:** | 60kDa |
| **Tag:** | C-6His |
| **Bio-activity:** | |
| **Purity:** | > 95 % as determined by SDS-PAGE |
| **Endotoxin:** | < 1.0 EU per µg as determined by the LAL method. |
| **Storage:** | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| **Shipping:** | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C. |
| **Formulation:** | Supplied as a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,20% Glycerol,pH8.0. |
| **Reconstitution:** | Please refer to it for detailed information. |
| **Application:** | |
| **Synonyms:** | Legumain;Lgmn;Asparaginyl endopeptidase;Protease cysteine 1;Prsc1;AEP |

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## Immunogen Information:

**Sequence:** Val 18-Tyr 435

## Background:

Mouse Legumain,also known as LGMN, is a cysteine protease belonging to peptidase family C13 and is expressed in kidney and placenta abundantly. LGMN has a strict specificity for hydrolysis of asparaginyl bonds. It can also cleave aspartyl bonds slowly, especially under acidic conditions. The mammalian legumain is involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system. It plays a role in the regulation of cell proliferation via its role in EGFR degradation. Legumain deficiency causes the accumulation of pro-Cathepsins B, H and L, another group of lysosomal cysteine proteases. Overexpression of Legumain in tumors is significant for invasion/metastasis. Mammalian legumain is inhibited by iodoacetamide and maleimides. Legumain activation appears to be autocatalytic and can be triggered by acidic pH.