# Recombinant Human LGMN Protein (Ile18-Tyr433), His tagged

**Cat. No.** LGMN-2623H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human LGMN (Ile18-Tyr433) protein fused with His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Ile18-Tyr433 |
| **Description** | Has a strict specificity for hydrolysis of asparaginyl bonds. Can also cleave aspartyl bonds slowly, especially under acidic conditions. Required for normal lysosomal protein degradation in renal proximal tubules. Required for normal degradation of internalized EGFR. Plays a role in the regulation of cell proliferation via its role in EGFR degradation. May be involved in the processing of proteins for MHC class II antigen presentation in the lysosomal/endosomal system. |
| **Molecular Mass** | 47.08 kDa |
| **Purity** | >90 % as determined by SDS-PAGE. |
| **Notes** | For research use only. |
| **Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |

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| **Storage Buffer** | Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5. |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. |
| **Shipping** | In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise. |

## GENE INFORMATION

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| **Gene Name** | LGMN legumain [ Homo sapiens (human) ] |
| **Official Symbol** | LGMN |
| **Synonyms** | LGMN; legumain; protease, cysteine, 1 (legumain), PRSC1; LGMN1; cysteine protease 1; protease, cysteine 1; asparaginyl endopeptidase; protease, cysteine, 1 (legumain); AEP; PRSC1; |
| **Gene ID** | 5641 |
| **mRNA Refseq** | NM_001008530 |
| **Protein Refseq** | NP_001008530 |
| **MIM** | 602620 |
| **UniProt ID** | Q99538 |

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