

General Information

Gene Name Synonym

Legumain, isoform CRA_a

Protein Construction

A DNA sequence encoding the extracellular domain (Val 18-Tyr 435) of mouse LGMN (NP_035305.1) precursor was expressed with a C-terminal polyhistidine tag.

Organism

Mouse

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave the fluorogenic peptide substrate, N-carbobenzyloxy-Ala-Ala-Asn-7-amido-4-methyl coumarin(Z-AAN-AMC). The specific activity is > 350 pmoles/min/μg.

Purity

> 75 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Thr 22

Molecular Mass

The secreted recombinant mouse LGMN consists of 434 amino acids and has a calculated molecular mass of 49.8 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 55 kDa protein in SDS-PAGE under reducing conditions.

Formulation

Supplied as sterile 25mM Tris, 0.15M NaCl, 20% Glycerol, pH 7.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

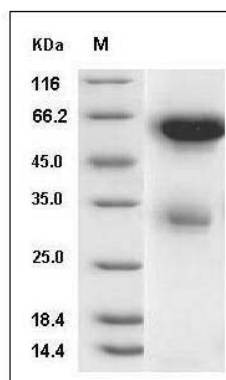
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Mouse Legumain/ LGMN Protein (His Tag) SDS-PAGE