Recombinant Pig LGMN, His-tagged

Cat. No. LGMN-570P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the sus scrofa(Pig) LGMN (XP_001927117.4) (Val18-Tyr433) was expressed with a polyhistidine tag at the N-terminus.
Species	Pig
Source	Human Cells
ProteinLength	Val18-Tyr433
Description	Legumain, also known as LGMN, is a cysteine protease belonging to peptidase family C13 with a strict specificity for hydrolysis of asparaginyl bonds. Known previously only from plants and invertebrates, Legumain is discovered as a lysosomal endopeptidase in mammals. Mammalian legumain is a cysteine endopeptidase, inhibited by iodoacetamide and maleimides, but unaffected by compound E64. The mammalian legumain is involved in the processing of bacterial peptides and endogenous proteins for MHC class II presentation in the lysosomal/endosomal systems. Legumain activation is triggered by acidic pH and appears to be autocatalytic. Mouse LGMN is ubiquitously expressed and particularly abundant in kidney and placenta.
Form	Lyophilized from sterile PBS, pH7.4.
Molecular Mass	The recombinant sus scrofa (Pig) LGMN consists of 435 amino acids and has a predicted molecular mass of 49.7 kDa. The apparent molecular mass of it is approximately 52.5 kDa in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	Hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	LGMN legumain [Sus scrofa]
Official Symbol	LGMN
Synonyms	LGMN; legumain;
Gene ID	100154477
Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

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