

Legumain Recombinant Protein | LGMN recombinant protein

Recombinant Human Legumain

CATALOG #
AAA38029HOST
Sf9, Baculovirus Cells

PRODUCT SYNONYMS

Legumain; Recombinant Human Legumain; PRSC1; Protease; Cysteine; 1 (Legumain); Asparaginyl Endopeptidase; Cysteine 1; EC 3.4.22.34; Cysteine Protease 1; LGMN1; AEP.; LGMN recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9, Baculovirus Cells
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	LGMN protein solution (1mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol. Sterile filtered colorless solution.
Sequence	VPIDDPEDGG KHWVVIVAGS NGWYNYRHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ GVPKDYTGED VTPQNFLAVL RGDAEAVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHMYKHK MYRKMVFYIE ACESGSMNNH LPDNINVYAT TAANPRESSY ACYYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL VKSHTNTSHV MQYGNKTIST MKVMQFQGMK RKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR HLDARHLIEK SVRKIVSLLA ASEAEVEQLL SERAPLTGHS CYPEALLHFR THCFNWSPT YEYALRHLYV LVNLCEKPYP LHRIKLSMDH VCLGHYH HHHHH.
Sequence Length	433
Physical Appearance	Sterile filtered colorless solution.
Preparation and Storage	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.

ADDITIONAL INFORMATION

Related Product Information for LGMN recombinant protein	Introduction: Legumain, also known as LGMN, is a cysteine endopeptidase which demonstrates strict specificity for hydrolysis of asparaginyl bonds. Furthermore, LGMN can also cleave aspartyl bonds slowly, in particular under acidic conditions. 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, over expression of LGMN in tumors is important for invasion/metastasis. Description: LGMN produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (18-433 a.a.) and fused to a 6 aa His Tag at C-terminus containing a total of 422 amino acids and having a molecular mass of 48.4kDa. LGMN shows multiple bands between 40-57kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.
Product Categories/Family for LGMN recombinant protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	56682964
NCBI GeneID	5641
NCBI Accession #	NP_001008530.1

NCBI GenBank Nucleotide #	NM_001008530.2
UniProt Accession #	Q99538 ; O00123 ; Q86TV2 ; Q86TV3 ; Q9BTY1
Molecular Weight	42,008 Da
NCBI Official Full Name	legumain preproprotein
NCBI Official Synonym Full Names	legumain
NCBI Official Symbol	LGMN
NCBI Official Synonym Symbols	AEP; LGMN1; PRSC1
NCBI Protein Information	legumain
UniProt Protein Name	Legumain
UniProt Gene Name	LGMN
UniProt Synonym Gene Names	PRSC1
UniProt Entry Name	LGMN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/lgm-recombinant-protein-sf9/38029>