
Product Data Sheet

Product Name: LGMN Human
 Cat. No.: GP21879
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Legumain; PRSC1; Protease; Cysteine; 1 (Legumain); Asparaginyl Endopeptidase; Protease; Cysteine 1; EC 3.4.22.34; Cysteine Protease 1; LGMN1; AEP.		
Amino Acid Sequence	VPIDDPEDGG KHWVVIVAGS NGWYNYRHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ GVPKDYTGED VTPQNFLAVL RGDAEAVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHYMYKHK MYRKMVFYIE ACESGSMNH LPDNINVYAT TAANPRESSY ACYYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL VKSHTNTSHV MQYGNKTIST MKVMQFQGMK RKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR HLDARHLIEK SVRKIVSLLA ASEAEVEQLL SERAPLTGHS CYPEALLHFR THCFNWHSPT YEYALRHLYV LVNLCCKPYP LHRIKLSMDH VCLGHYHHHH HH.		
Formulation	LGMN protein solution (1mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.		

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 procathepsins B, H & L, another group of lysosomal cysteine proteases. Furthermore, over expression of LGMN in tumors is important for invasion/metastasis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

LG MN 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 (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). LG MN is purified by proprietary chromatographic techniques.

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