

32-6834: LGMN Human

Alternative Name : Legumain, PRSC1, Protease, Cysteine, 1 (Legumain), Asparaginyl Endopeptidase, Protease, Cysteine 1, EC 3.4.22.34, Cysteine Protease 1, LGMN1, AEP.

Description

Source: Sf9, Baculovirus cells.

Sterile filtered colorless solution.

À 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.

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

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : LGMN protein solution (1mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : VPIDDPEDGG KHWVIVAGS NGWYNRHHQA DACHAYQIIH RNGIPDEQIV VMMYDDIAYS EDNPTPGIVI NRPNGTDVYQ GVPKDYTGED VTPQNFLAVL RGDAEAVKGI GSGKVLKSGP QDHVFIYFTD HGSTGILVFP NEDLHVKDLN ETIHYMYKHK MYRKMVFYIE ACESGSMNNH LPDNINVYAT TAANPRESSY ACYDEKRST YLGDWYSVNW MEDSDVEDLT KETLHKQYHL VKSHTNTSHV MQYGNKTIST MKVMQFQGMK RKASSPVPLP PVTHLDLTPS PDVPLTIMKR KLMNTNDLEE SRQLTEEIQR HLDARHLIEK SVRKIVSLLA ASEAEVEQLL SERAPLTGHS CYPEALLHFR THCFNWSPT YEYALRHLYV LVNLCEKPYP LHRIKLSMDH VCLGHYHHHH HH.