
Product Data Sheet

Product Name: LAMP1 Human
 Cat. No.: GP23793
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lysosome-associated membrane glycoprotein 1; LAMP1; CD107a; LAMPA; LGP120; LAMP-1; CD107 antigen-like family member A.		
Amino Acid Sequence	ADPAMFMVKN GNGTACIMAN FSAAFSVNYD TKSGPKNMTF DLPSDATVVL NRSSCGKENT SDPSLVIAFG RGHTLTLNFT RNATRYSVQL MSFVYNLSDT HLFPNASSKE IKTVESITDI RADIDKKYRC VSGTQVHMNN VVTLHDATI QAYLSNSSFS RGETRCEQDR PSPTTAPPAPPSPSPSPVVK SPSVDKYNVS GTNGTCLLAS MGLQLNLTYE RKDNTTVTRL LNINPNK TSA SGSCGAHLVT LELHSEGTTV LLFQFGMNAS SSRFFLQGIQ LNTILPDARD PAFKAANGSL RALQATVGNS YKCNAAEEHVR VTKAFSVNIF KVWVQAFKVE GGQFGSVEEC LLDENSMHHHHHH		
Formulation	LAMP1 protein solution (1mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Lysosomal-Associated Membrane Protein 1 (LAMP1) is a part of the LAMP family. LAMP1 is a membrane protein which is expressed in the endosome-lysosome membranes of cells and is implicated in tumor cell metastasis. A glycoform of LAMP1 is expressed on the surface of activated macrophages and promotes T cell costimulation and a Th1 biased immune response. LAMP1 is also found on the plasma membrane during the activation of NK cells, CD8 & T cells, monocytes, basophils, and platelets.

Stability

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.

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

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Background

LAMP1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 363 amino acids (29-382a.a.) and having a molecular mass of 39.4kDa. (Molecular size on SDS-PAGE will appear at approximately 57-70kDa). LAMP1 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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