Envelope Glycoprotein L (gL) Epstein-Barr Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Envelope glycoprotein L (gL), Recombinant Protein
Full Product Name	Recombinant Epstein-Barr virus Envelope glycoprotein L (gL)
Product Gene Name	gL recombinant protein
Product Synonym Names	Glycoprotein 25
Host	E Coli
Species Reactivity	Epstein-Barr virus (strain B95-8)
Form/Format	Tris-based buffer, 50% glycerol
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C.
Molecular Weight	28.68 kDa
Sequence Positions	Full Length, 23-137aa
3D Structure	ModBase 3D Structure for P03212
Tag Info	N-terminal 6xHis-SUMO-tagged
Related Product Information for gL recombinant protein	The heterodimer glycoprotein H-glycoprotein L is required for the fusion of viral and plasma membranes leading to virus entry into the host cell. Membrane fusion is mediated by the fusion machinery composed at least of gB and the heterodimer gH/gL. Fusion of EBV with B-lymphocytes requires the additional receptor-binding protein gp42, which forms a complex with gH/gL. May also be required for virus attachment to epithelial cells.
Other Notes	Small volumes of gL recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for gL purchase	MBS9423940 is a recombinant protein targeting gL. Also known as Recombinant Epstein-Barr virus Envelope glycoprotein L (gL). Reactive in Epstein-Barr virus (strain B95-8). Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for gL. It may not necessarily be applicable to this product.

NCBI GI #	82503234
NCBI GeneID	3783710
NCBI Accession #	YP_401678.1
UniProt Primary Accession #	P03212
UniProt Secondary Accession #	Q777E0
GenBank Nucleotide #	NC_007605.1
NCBI Official Full Name	glycoprotein L
NCBI Official Symbol	BKRF2

UniProt Protein Name	Envelope glycoprotein L
Protein Family	Envelope glycoprotein
UniProt Gene Name	gL
UniProt Synonym Gene Names	gL
NCBI Protein Information	glycoprotein L precursor
UniProt Comments for gL	The heterodimer glycoprotein H-glycoprotein L is required for the fusion of viral and plasma membranes leading to virus entry into the host cell. Acts as a functional inhibitor of gH and maintains gH in an inhibited form. Upon binding to host integrins, gL dissociates from gH leading to activation of the viral fusion glycoproteins gB and gH. Fusion of EBV with B-lymphocytes requires the additional receptor-binding protein gp42, which forms a complex with gH/gL.
Research Articles on gL	**1.** The KGD motif of Epstein-Barr virus gH/gL directs EBV fusion of B cells and epithelial cells.
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