

Pre-glycoprotein polyprotein GP complex (GPC) Recombinant Protein | GPC recombinant protein

Recombinant Lymphocytic choriomeningitis virus Pre-glycoprotein polyprotein GP complex (GPC), partial

CATALOG # AAA310498	HOST In vitro E Coli expression system
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PRODUCT SYNONYMS

Pre-glycoprotein polyprotein GP complex (GPC); Recombinant Lymphocytic choriomeningitis virus Pre-glycoprotein polyprotein GP complex (GPC); partial; GPC recombinant protein

PRODUCT SPECIFICATIONS

Host	In vitro E Coli expression system
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Tris-based buffer 50% glycerol
Sequence Positions	10-90aa
Sequence	ALPHIIDEVI NIVIIVLIVI TGIKAVYNFA TCGIFALISF LLLAGRSCGM YGLKGPDYK GVVYQFKSVEF DMSHLNLTMP N
Tag	N-terminal 6xHis-SUMO-tagged
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. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for GPC recombinant protein	Stable signal peptide (SSP) is cleaved but is apparently retained as the third component of the GP complex. The SSP is required for efficient glycoprotein expression, post-translational cleavage of GP1 and GP2, glycoprotein transport to the cell plasma membrane, formation of infectious virus particles, and acid pH-dependent glycoprotein-mediated cell fusion. ¹ Publication Glycoprotein G1 mediates virus attachment to host receptor alpha-dystroglycan DAG1. This attachment induces virion internalization predominantly through clathrin- and caveolin-independent endocytosis. ¹ Publication Glycoprotein G2 is a class I viral fusion protein, that directs fusion of viral and host endosomal membranes, leading to delivery of the nucleocapsid into the cytoplasm. Membrane fusion is mediated by irreversible conformational changes induced upon acidification in the endosome.
References	"Mutagenesis-induced, large fitness variations with an invariant arenavirus consensus genomic nucleotide sequence." Grande-Perez A., Gomez-Mariano G., Lowenstein P.R., Domingo E.J. Virol. 79:10451-10459(2005)

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P09991
Molecular Weight	24.9 kDa

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.