

Lymphocytic choriomeningitis virus (LCMV) (strain Armstrong) GPC Protein (His & SUMO)

General Information

Synonyms:	GP-C;Pre-glycoprotein polyprotein GP complex;GPC;Pre-GP-C
Protein Construction:	266-498 aa
Species:	LCMV
Expression Host:	E. coli
Accession:	P09991
Molecular Weight:	42.4 kDa (predicted)
AA Sequence:	GTFTWTLSDSSGVENPGGYCLTKWMILAAELKCFGNTAVAKCNVNHDAEFCDMRLRIDYNKAALSKFKEDVE SALHLFKTTVNSLISDQLLMRNHLRDLMGVPCYNYSKFWYLEHAKTGETSVPKCWLVTNGSYLNETHFSDQIE QEADNMITEMLRKDYIKRQGSTPLALMDLLMFSTSAYLVSIFLHLVKIPTHRIHKGSCPKPHRLTNKGICSCGA FKVPGVKTVWKRR

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.; Stable signal peptide (SSP): cleaved and functions as a signal peptide. In addition, it is also retained as the third component of the GP complex. The SSP is required for efficient glycoprotein

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expression, post-translational maturation cleavage of GP1 and GP2, glycoprotein transport to the cell surface plasma membrane, formation of infectious virus particles, and acid pH-dependent glycoprotein-mediated cell fusion.; interacts with the host receptor. Mediates virus attachment to host receptor alpha-dystroglycan DAG1. This attachment induces virion internalization predominantly through clathrin- and caveolin-independent endocytosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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