

envelope glycoprotein gp64 Protein, AcmNPV (sf9, His)

Cat. No.:	HY-P76712
Synonyms:	Major envelope glycoprotein; GP64; GP67; AcmNPV-gp64
Species:	Virus
Source:	Sf9 insect cells
Accession:	P17501 (M1-T481)
Gene ID:	1403961
Molecular Weight:	Approximately 54.2 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Envelope glycoprotein gp64 is a Class III viral fusion protein and a critical component of certain viruses. Serving as an envelope phosphoglycoprotein, gp64 plays a pivotal role in mediating the fusion between viral and host endosomal membranes, facilitating the entry of the virus into the host cell. Upon receptor-mediated internalization, gp64 undergoes a conformational change into a fusion-competent state at low pH, allowing the release of the viral nucleocapsid into the cytoplasm after cell fusion. Additionally, gp64 may be involved in the budding process. Structurally, gp64 forms homotrimers that are disulfide-linked, contributing to its stability and functionality in the viral fusion process (
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Caution: Product has not been fully validated for medical applications. For research use only.

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