

## glycoprotein/G2 Protein, RVFV (sf9, His)

Cat. No.:	HY-P76577
Synonyms:	Rift Valley fever virus (RVFV) (strain MP12) glycoprotein/G2 Protein
Species:	Virus
Source:	Sf9 insect cells
Accession:	ABD38821 (C691-S1139)
Gene ID:	/
Molecular Weight:	Approximately 50.1 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0, 10% Glycerol. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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	<p>The RVFV viral envelope is coated with surface glycoprotein projections of 10 nm in diameter, while the nucleic acids that comprise the viral genome are located within the nucleocapsid. The nucleic acids that make up the RVFV genome are single-stranded antisense RNA molecules that consist of small (S), medium (M), and large (L) segments. The S segment, which is comprised of 1690 nucleotides (nt), encodes the N and NSs proteins; the M segment (3885 nt) encodes the G2 (Gn), G1 (Gc), and NSm proteins; and the L segment (6404 nt) encodes the L protein (an RNA-dependent RNA polymerase). The RVFV N and L proteins are responsible for viral replication and transcription. G2 and G1 are glycoproteins that enter the viral envelope to form a ribonucleoprotein complex (RNP) with the N protein. Additionally, the RNP and L protein jointly package the viral particle. NSm and NSs are nonstructural proteins<sup>[1]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA