Recombinant Nipah virus G protein (Fc tag)

Information

Gene ID	-
Accession #	AAY43916.1
Alternate Names	NiV glycoprotein G, NiV-G, Surface glycoproteins
Source	HEK293
Protein sequence	Q71-T602
Tag	Fc tag
M.Wt	None
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -3 years from date of receipt, -20 to -70°C as supplied.
Concentration	0.8 mg/ml
Formulation	Supplied as a 0.2 μm filtered solution in 20 mM PB and 150 mM NaCl, pH 6.8.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Test in progress.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	>95% by SDS-PAGE and >90% by HPLC

Description

Nipah virus attachment glycoprotein (NiV-G) is a key envelope glycoprotein on the surface of Nipah virus, a member of the genus Henipavirus. This protein exists on the viral surface as a tetramer and is a type II membrane protein, structurally divided into an N-terminal cytoplasmic tail, a transmembrane domain, a stalk, and a C-terminal globular head. The core function of the G protein is to mediate viral attachment to host cells: its globular head binds to ephrin-B2 or ephrin-B3 receptors on the host cell surface, anchoring the virus to target cells. Unlike other members of the Paramyxoviridae family, the G proteins of henipaviruses have neither hemagglutinin nor neuraminidase activity; although their heads adopt the classic neuraminidase-like six-bladed β-propeller fold, they only perform receptor-binding functions. After receptor binding, the G protein undergoes a conformational change, which in turn triggers fusion protein (F protein)-mediated fusion of the viral envelope with the host cell membrane, completing the entry process.

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