

Recombinant Nipah Virus Glycoprotein F, mFc-tagged

Cat. No. NIP-507 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Nipah virus glycoprotein F is a class I fusion protein, with typical structural features. These include heptad repeats and a hydrophobic fusion peptide that bind to each other, forming a six-helix bundle which functions in membrane fusion processes. Nipah Virus attaches to target cells via glycoprotein G, which then undergoes a conformational change leading to triggering of Nipah virus glycoprotein F which leads to membrane fusion.

Tag

mFc

Background

Nipah virus (NiV) is an enveloped single stranded negative sense RNA virus that belongs to the Henipavirus genus, which is a new member of the Paramyxoviridae family. Nipah infection was first recognised in Malaysia 1998/1999, where a major NiV outbreak occurred in pigs and humans. A subsequent outbreak of NiV in Singapore also pointed to pigs as an intermediate host. However, outbreaks in India and Bangladesh did not. The natural host for NiV has now been identified as the fruit bat, of the Pteropus genus, with swine acting as intermediate host in some cases. Reports suggest that transmission of Nipah virus to humans can occur through contact with NiV infected bats, food contaminated by bat's excrement, infected pigs and other NiV infected humans.

Nipah, the disease caused by NiV infection is now endemic in South Asia and several outbreaks of NiV infection have been reported in India and Bangladesh. The symptoms of Nipah virus infection in humans can include rapidly developing fever, abdominal pain, nausea, vomiting, acute respiratory syndrome and severe encephalitis, which is fatal in a high percentage of cases (WHO).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

In 2015, the World Health Organization highlighted NiV infection as an emerging disease requiring accelerated research and development to advance in vitro diagnostic development, vaccine design and therapeutics (WHO, 2015).

Purity	>90%
Sequence Strain	Malaysia 2008
Formulation	Dulbecco's PBS pH7.4
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Applications	Suitable for immunoassay development.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -80 centigrade
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	Nipah Virus Glycoprotein F

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA