

Recombinant Nipah Virus Glycoprotein G, mFc-tagged

Cat. No. NIP-509 Lot. No. (See product label)

SPECIFICATION

Product Overview

Nipah virus glycoprotein G has a globular head domain formed of a six-bladed beta sheet-propeller, connected via a flexible stalk domain to a transmembrane anchor. The G protein binds to the cellular receptors ephrin B2 and ephrin B3, mediating viral attachment. Following attachment Nipah Virus glycoprotein G undergoes a conformational change that leads to triggering of 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).

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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).

Sequence Strain Malaysia 2008(GenBank accession number NP 112027)

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: +2 centigrade to +8 centigrade
Long Term Storage: -80 centigrade

Concentration 0.33 mg/mL

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 G

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