Datasheet for ABIN7121350

NIV G Protein (His tag)

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Overview

Quantity:	50 µg
Target:	NIV G
Origin:	Nipah Virus (NiV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NIV G protein is labelled with His tag.

Product Details

Purpose:	Nipah virus Glycoprotein, His Tag (MALS verified)
Sequence:	Gln 71 - Thr 602
Characteristics:	Nipah virus Glycoprotein, His Tag (GLN-N52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 71 - Thr 602 (Accession # Q9IH62-1).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.
Grade:	MALS verified

Target Details

Target:	NIV G
Alternative Name:	Nipah virus Glycoprotein (NIV G Products)
Background:	Synonyms: Glycoprotein,

Target Details

	Description: Hendra virus (HeV) and Nipah virus (NiV) are henipaviruses discovered in the mid- to late 1990s that possess a broad host tropism and are known to cause severe and often fatal disease in both humans and animals. HeV and NiV infect host cells through the coordinated efforts of two envelope glycoproteins. The G glycoprotein attaches to cell receptors, triggering the fusion (F) glycoprotein to execute membrane fusion. G is a type II homotetrameric transmembrane protein responsible for binding to ephrinB2 or ephrinB3 (ephrinB2/B3) receptors. F is a homotrimeric type I transmembrane protein that is synthesized as a premature F0 precursor and cleaved by cathepsin L during endocytic recycling to yield the mature, disulfide-linked, F1 and F2 subunits. Upon binding to ephrinB2/B3, NiV G undergoes conformational changes leading to F triggering and insertion of the F hydrophobic fusion peptide into the target membrane. Subsequent refolding into the more stable post-fusion F conformation drives merger of the viral and host membranes to form a pore for genome delivery to the cell cytoplasm.
Molecular Weight:	61.2 kDa

Application Details

Application Notes:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 61.2 kDa. The protein migrates as 70-100 kDa under reducing (R) condition due to glycosylation.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C
Storage Comment:	-20°C