Datasheet for ABIN7013074

Fusion Glycoprotein Protein (F) (AA 27-487) (His tag)

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Overview

Quantity:	50 µg
Target:	Fusion Glycoprotein (F)
Protein Characteristics:	AA 27-487
Origin:	Nipah Virus (NiV)
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Fusion Glycoprotein protein is labelled with His tag.

Product Details

Purpose:	Nipah virus Fusion glycoprotein, His Tag
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	Fusion Glycoprotein (F)
Alternative Name:	Fusion glycoprotein (F Products)
Target Type:	Viral Protein
Background:	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

Target Details

	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:	55.9 kDa
NCBI Accession:	NP_112026

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS
Storage:	-20 °C

