

Active Recombinant IAV H1N1 Neuraminidase Protein (Ser37-Lys469), N-6×His tagged

Cat. No. NA-11 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant IAV H1N1 Neuraminidase Protein (Ser37-Lys469) with an N-terminal 6-His tag was expressed in Spodoptera frugiperda, Sf 21 (Insect cells).
Species	IAV
Source	Insect Cells
ProteinLength	Ser37-Lys469
Description	Neuraminidase (NA) and hemagglutinin (HA) are major membrane glycoproteins found on the surface of influenza virus. HA is a lectin that binds sialic acid on host cell membrane. NA is a sialic acid hydrolase that specifically clips off terminally located sialic acid on host cell surface. The two proteins are essential for the infectious cycle of the influenza virus. During initial infection, an influenza virus will hold onto an epithelial cell through HA-sialic acid interaction. At the end of an infectious cycle, the NA will cleave the sialic acid on the host cell membrane, releasing the formed viral particle from the HA-sialic acid bondage. The neuraminidase activity is also thought to help the virus penetrate mucus. Nine subtypes of NA have been identified, all of which are tetrameric and share a common structure consisting of a globular head, a thin stalk region, and a small hydrophobic region that anchors the protein in the virus membrane. The purified rvH1N1NA consists of amino acid residues 37 to 469 as deduced from the 1918 Spanish flu virus NA (A/Bervig_Mission/1/18). It has a distinct N-glycan profile and is resistant to trypsin digestion.

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Bio-activity	Activity Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)-alpha -D-N-acetylneuraminic acid. The specific activity is > 2,500 pmol/min/μg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 48 kDa SDS-PAGE: 57 kDa, reducing conditions
N-terminal Sequence Analysis	His
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl and Glycerol.
Shipping	The product is shipped with polar packs.
GENE INFORMATION	
Official Symbol	NA
Synonyms	NANH; Sialidase; Viral Neuraminidase

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