

Active Recombinant IAV H3N2 Neuraminidase Protein (Ala46-Ile469), C-6xHis tagged

Cat. No. NA-10 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant IAV H3N2 Neuraminidase Protein, Ala46-Ile469, vasodilator-stimulated phosphoprotein tetramerization domain with a C-terminal 6-His tag was expressed in <i>Spodoptera frugiperda</i> , Sf 21 (Insect cells).
Species	IAV
Source	Insect Cells
ProteinLength	Ala46-Ile469
Description	Catalyzes the removal of terminal sialic acid residues from viral and cellular glycoconjugates. Cleaves off the terminal sialic acids on the glycosylated HA during virus budding to facilitate virus release. Additionally helps virus spread through the circulation by further removing sialic acids from the cell surface. These cleavages prevent self-aggregation and ensure the efficient spread of the progeny virus from cell to cell. Otherwise, infection would be limited to one round of replication. Described as a receptor-destroying enzyme because it cleaves a terminal sialic acid from the cellular receptors. May facilitate viral invasion of the upper airways by cleaving the sialic acid moieties on the mucin of the airway epithelial cells. Likely to play a role in the budding process through its association with lipid rafts during intracellular transport. May additionally display a raft-association independent effect on budding. Plays a role in the determination of host range restriction on replication and virulence. Sialidase activity in late endosome/lysosome traffic seems to enhance virus

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	replication.
Bio-activity	Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)-alpha-D-N-acetylneuraminic acid. The specific activity is > 10,000 pmol/min/μg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 53 kDa SDS-PAGE: 57-65 kDa, reducing conditions
N-terminal Sequence Analysis	Ser (of tetramerization domain)
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 85%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl, CaCl ₂ , DTT and Glycerol.
Shipping	The product is shipped with dry ice or equivalent.
GENE INFORMATION	
Official Symbol	NA
Synonyms	Neuraminidase; NA; EC:3.2.1.18; NANH; Sialidase; Viral Neuraminidase

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UniProt ID

Q91MA2

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