Active Recombinant IAV H5N1 Neuraminidase Protein (Ser37-Lys449), C-6×His tagged

Cat. No. NA-12 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant IAV H5N1 Neuraminidase Protein (Ser37-Lys449) with an N-terminal vasodilator-stimulated phosphoprotein tetramerization domain and a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	IAV
Source	NS0
ProteinLength	Ser37-Lys449
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 moities on the mucin of the airway epithelial cells. Likely to plays 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 > 2,500 pmol/min/µg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 51 kDa SDS-PAGE: 58-65 kDa, reducing conditions
N-terminal Sequence Analysis	Ser (tetramerization domain)
Endotoxin	< 0.10 EU/µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane
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; Neuraminidase; NA; EC:3.2.1.18

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UniProt ID	Q6DPL2

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