NA/Neuraminidase Protein, Influenza A H5N1 (H255Y, HEK293)

Cat. No.:	HY-P73239
Synonyms:	NA; Neuraminidase
Species:	Virus
Source:	HEK293
Accession:	ABU94738.1 (M1-K449, H255Y)
Gene ID:	/
Molecular Weight:	Approximately 49.2 kDa

PROPERTIES

Biological Activity	Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid. One unit is defined as the amount of enzyme required to cleave 1 nmole of 2'-(4-Methylumbelliferyl)-α-D-N-acetylneuraminic acid per minute at pH 7.5 at 37℃.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 0.6% Triton X-100, 7% Trehalose, 6% Mannitol, pH 7.4
Endotoxin Level	/
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Neuraminidase (NA) is described as a receptor-destroying enzyme because it cleaves a terminal sialic acid from the cellular receptors. NA may facilitate viral invasion of the upper airways by cleaving the sialic acid moities on the mucin of the airway epithelial cells. NA 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 and 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 or the infection would be limited to one round of replication. NA also plays a role in the determination of host range restriction on replication and virulence[1][2].

Caution: Product has not been fully validated for medical applications. For research use only.

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