

NA/Neuraminidase Protein, H9N2 (Q91CY2, HEK293, His)

Cat. No.:	HY-P74714
Synonyms:	Influenza A H9N2 (A/Hong Kong/1073/99) Neuraminidase / NA (HEK293, His)
Species:	Virus
Source:	HEK293
Accession:	Q91CY2 (H36-I469)
Gene ID:	1460997
Molecular Weight:	Approximately 65.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	<p>The NA/Neuraminidase protein is responsible for catalyzing the removal of terminal sialic acid residues from both viral and cellular glycoconjugates. During virus budding, it cleaves off the terminal sialic acids on the glycosylated HA, allowing for the efficient release of the virus. Additionally, it aids in virus spread by removing sialic acids from the cell surface, preventing self-aggregation and ensuring the progeny virus can easily spread from cell to cell. This enzyme is known as a receptor-destroying enzyme as it cleaves a terminal sialic acid from cellular receptors. It may also contribute to the invasion of the upper airways by cleaving sialic acid moieties on airway epithelial cells' mucin. The NA protein is associated with lipid rafts during intracellular transport, potentially assisting in the budding process, and may have effects independent of raft-association as well. It also plays a role in determining host range restriction on replication and virulence, while its sialidase activity in late endosome/lysosome traffic appears to enhance virus replication.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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