

NA/Neuraminidase Protein, H1N1 (P03469, HEK293)

Cat. No.:	HY-P73777
Synonyms:	NA; Neuraminidase; NA/Neuraminidase Protein, H1N1 (A/USSR/90/1977, HEK293)
Species:	Virus
Source:	HEK293
Accession:	P03469 (M1-K470)
Gene ID:	/
Molecular Weight:	Approximately 51.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, 1% Triton X-100, 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 acts as a catalyst in removing sialic acid residues from viral and cellular glycoconjugates. It plays a crucial role in virus budding by cleaving off terminal sialic acids on the glycosylated HA, aiding in the release of the virus. Additionally, it facilitates virus spread by further removing sialic acids from the cell surface, preventing self-aggregation and ensuring efficient spread from cell to cell. This protein is referred to as a receptor-destroying enzyme as it cleaves terminal sialic acids from cellular receptors. It may also contribute to viral invasion of the upper airways by cleaving sialic acid moieties on the mucin of airway epithelial cells. NA is associated with lipid rafts during intracellular transport, potentially aiding in the budding process, and may have raft-association independent effects as well. It is involved in determining host range restriction on replication and virulence, and 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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