

Hemagglutinin-neuraminidase Protein, HPIV-4b (sf9, His)

Cat. No.:	HY-P77389
Synonyms:	Human parainfluenza virus 4b (HPIV-4b) Hemagglutinin-neuraminidase (His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	ARB07730 (S48-The579)
Gene ID:	/
Molecular Weight:	Approximately 57.12 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PBS, pH 7.0, 300 mM NaCl, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	Hemagglutinin-neuraminidase is a single viral protein that has both hemagglutinin and neuraminidase activities. Hemagglutinin neuraminidase protein plays a key role in viral infection. It attaches the virus to a cell receptor containing sialic acid, initiating the infection process. When the hemagglutinin-neuraminidase protein binds to the receptor, it causes conformational changes that allow the F protein to trigger fusion between the virion and the cell membrane. This fusion event facilitates the entry of the virus into the host cell. In addition, the hemagglutinin-neuraminidase protein exhibits neuraminidase activity, which contributes to the effective transmission of the virus. By separating mature virions from glycoproteins containing neuraminidase, the hemagglutinin-neuraminidase protein enables the virus to reproduce efficiently ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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