HA/Hemagglutinin Protein, H7N8 (ACR59554, sf9, His)

Cat. No.:	HY-P76452
Synonyms:	Influenza A H7N8 (A/mallard/Netherlands/33/2006) Hemagglutinin / HA Protein (His)
Species:	Virus
Source:	Sf9 insect cells
Accession:	ACR59554 (M1-F535)
Gene ID:	/
Molecular Weight:	Approximately 59 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM, Tris 500 mM NaCl, 10% Glycerol, pH 8.0. 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.
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	Avian influenza (AI) viruses belong to the family Orthomyxoviridae, genus Influenzavirus A, and contain a negative-sense, eight segmented RNA genome (Polymerase basic 2, PB2;Polymerase basic 1, PB1; Polymerase acid, PA; Hemagglutinin, HA; Nucleocapsid protein, NP, Neuraminidase, NA; Matrix, M; Nonstructural protein, NS). Multiple substitutions or insertions of basic amino acids in the cleavage site of the HA of H5 and H7 subtypes of LPAI viruses allow them to be cleaved by common cellular proteases, and the mutated virus can spread systemically in a host causing the highly pathogenic phenotype[1]. Some studies have confirmed that the removal of the N-linked glycosylation sequence of HA contributes to the increase in HA affinities to an α-2,6-linked sialyl receptor and a reduction in virus growth and spread. Differences in viral shedding and the transmission of various AIV strains are dependent upon specific HA and/or NA proteins[2].

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