Recombinant Influenza A virus H7N9 NA, His-tagged

Cat. No. H7N9-18I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the Influenza A virus (A/Shanghai/1/2013(H7N9)) neuraminidase (His36-Leu465) was expressed with an N-terminal polyhistidine tag.
Species	H7N9
Source	Human Cells
ProteinLength	36-465 a.a.
Description	This new H7N9 virus is an avian (bird) influenza (flu) virus. Influenza (flu) is a respiratory infection in mammals and birds. The virus is divided into three main types (Influenza A, Influenza B, and Influenza C), which are distinguished by differences in two major internal proteins (hemagglutinin (HA) and neuraminidase (NA)). The influenza viral neuraminidase (NA) protein is a tetramer with an enzyme active site on the head of each monomer. Subtypes are further divided into strains; each genetically distinct virus isolate is usually considered to be a separate strain. NA protein is a second major surface antigen of the virion. Neuraminidase (NA) cleaves terminal sialic acid from glycoproteins or glycolipids. Thus, it functions to free virus particles from host cell receptors, to permit progeny virions to escape from the cell in which they arose, and so facilitate virus spread.
Predicted N Terminal	His
Form	Lyophilized from sterile PBS, pH 7.4.

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Molecular Mass	The recombinant neuraminidase of Influenza A virus (A/Shanghai/1/2013(H7N9)) comprises 448 amino acids and has a predicted molecular mass of 50.6 kDa. The apparent molecular mass of the protein is approximately 61-69 kDa in SDS-PAGE under reducing conditions.
AA Sequence	HHHHHHHHHH LEVLFQGPHL KPSCNCSHSQ PETTNTSQTI INNYYNETNI TNIQMEERTS RNFNNLTKGL CTINSWHIYG KDNAVRIGES SDVLVTREPY VSCDPDECRF YALSQGTTIR GKHSNGTIHD RSQYRALISW PLSSPPTVYN SRVECIGWSS TSCHDGKSRM SICISGPNNN ASAVVWYNRR PVAEINTWAR NILRTQESEC VCHNGVCPVV FTDGSATGPA DTRIYYFKEG KILKWESLTG TAKHIEECSC YGERTGITCT CKDNWQGSNR PVIQIDPVAM THTSQYICSP VLTDNPRPND PNIGKCNDPY PGNNNNGVKG FSYLDGANTW LGRTISTASR SGYEMLKVPN ALTDDRSKPI QGQTIVLNAD WSGYSGSFMD YWAEGDCYRA CFYVELIRGR PKEDKVWWTS NSIVSMCSST EFLGQWNWPD GAKIEYFL
Endotoxin	< 1.0 eu per μg of the protein as determined by the lal
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Storage	Store it under sterile conditions at -70℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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