

Active Recombinant H1N1(A/California/04/2009) NA Protein(H274Y mutation)

Cat. No. NA-422H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant H1N1(A/California/04/2009) NA Protein(H274Y mutation)(ACP41107.1) (His 36-Lys 469) was expressed in HEK293, the cell lysates are collected, and bio-activity was tested. There is an amino acid change from Histidine to Tyrosine (H274Y mutation) in NA / Neuraminidase.
Species	H1N1
Source	HEK293
ProteinLength	36-469 aa, H274Y mutation
Form	Lyophilized from sterile PBS, 0.6% Triton X-100, 7% Trehalose, 6% Mannitol, pH 7.4.
Bio-activity	Measured by its ability to cleave a fluorogenic substrate, 2'-(4-Methylumbelliferyl)- α -D-N-acetylneuraminic acid. The specific activity is > 200 U. One unit is defined as the amount of enzyme required to cleave 1 nmole of 2'-(4-Methylumbelliferyl)- α -D-N-acetylneuraminic acid per minute at pH 7.5 at 37°C.
Molecular Mass	The recombinant influenza A H1N1 Neuraminidase comprises 450 amino acids and has a predicted molecular mass of 50 kDa.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.

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Storage

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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