

Newcastle disease virus (NDV) (strain Her/33) Hemagglutinin-neuraminidase Protein (His)

General Information

Synonyms: Hemagglutinin-neuraminidase;HN

Protein Construction: 115-473 aa

Species: NDV

Expression Host: E. coli

Accession: P35741

Molecular Weight: 45.1 kDa (predicted)

AA Sequence:

NGAANNSSGCGAPVHDPDYIGGIGKELIVDDASDVTSFYPSAFQEHLNFIPAPTTGSGCTRIPSFDISATHYCYT
HNVLISGCRDHSQYLAALGVLRTSATGRVFFSTLRSINLDDNQNRKSCSVSATPLGCDMLCSKITETEEEDY
SSVTPTSMVHGRLGFDGQYHEKDLVDITLFDKDWVANYPGVGGGSFIDNRVWFPVYGGGLKPNPSPDTVQEGR
YVIYKRYNDTCPDEQDYQIRMAKSSYKPGRFGGKRVQQAILSIVSTSLGEDPVLTIPTNTVTLMGAEGRVLT
GTSHFLYQRGSSYFSPALLYPMTVNNKTATLHSPYTFNAFTRPGSVPCQASARCPNSCVTVGVYTD

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

Mediates the viral entry into the host cell together with fusion/F protein. Attaches the virus to sialic acid-containing cell receptors and thereby initiates infection. Binding of HN protein to the receptor induces a conformational change that allows the F protein to trigger virion/cell membranes fusion.; Neuraminidase activity ensures the efficient spread of the virus by dissociating the mature virions from the neuraminic acid containing glycoproteins.

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