

N4 Neuraminidase (NA) Protein from Influenza Virus, A/grey teal/Australia/2/1979 (H4N4), Recombinant from baculovirus

Catalog No. NR-656

This reagent is the tangible property of the U.S. Government.

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Contributor and Manufacturer:

NIH - Influenza Pandemic Preparedness in Asia Program

Product Description:

Recombinant N4 neuraminidase (NA) protein from influenza virus A/grey teal/Australia/2/1979 (H4N4)¹ was produced in Sf9 insect cells using a baculovirus expression vector system.^{2,3} Recombinant N4 NA protein was purified using conventional chromatographic techniques.

Material Provided:

Each vial contains 0.25 mL of purified recombinant N4 NA protein in 20 mM sodium phosphate and 0.5 M *N*-methyl α -D-mannopyranoside (pH 8.0). The concentration, expressed as μ g/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

Purified recombinant N4 NA protein was packaged aseptically, in screw-capped plastic cryovials. This product is provided on wet ice and should be stored at 2 to 8°C immediately upon arrival.

Functional Activity:

NR-656 is biologically active in a neuraminidase assay. NR-656 is specific to the N4 NA subtype of influenza virus as determined in serological neuraminidase inhibition (NI) assays. NR-656 demonstrates reactivity in NI and ELISA assays within the N4 NA subtype. Applications: NI, ELISA, SDS-PAGE, Western blot, antiserum preparation (immunogen).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: N4 Neuraminidase (NA) Protein from Influenza Virus, A/grey teal/Australia/2/1979 (H4N4), Recombinant from baculovirus, NR-656."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and

Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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NR-656 is claimed in U.S. Patent Numbers 5,762,939 and 6,103,526, and the continuations, continuations-in-part, reissues and foreign counterparts thereof. Commercial use also requires a license from Protein Sciences Corporation, Meriden, Connecticut. For information call 203-686-0800.

References:

1. Donis, R. O., W. J. Bean, Y. Kawaoka, and R. G. Webster. "Distinct Lineages of Influenza Virus H4 Hemagglutinin Genes in Different Regions of the World." Virology 169 (1989): 408-417. PubMed: 2705304.
2. Smith, G. E., et al. Method for Producing Influenza Hemagglutinin Multivalent Vaccines Using Baculovirus. MG-PMC, LLC, assignee. U.S. Patent 5,762,939. 09 Jun. 1998.

3. Smith, G. E., et al. *Spodoptera frugiperda* Single Cell Suspension Cell Line in Serum-Free Media, Methods of Producing and Using. Protein Sciences Corporation, assignee. U.S. Patent 6,103,526. 15 Aug. 2000.

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