N2 Neuraminidase (NA) Protein from Influenza Virus, A/shorebird/Delaware/127/1997 (H6N2), Recombinant from baculovirus

Catalog No. NR-657

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

For research use only. Not for human use.

Contributor and Manufacturer:

NIH - Influenza Pandemic Preparedness in Asia Program

Product Description:

Recombinant N2 neuraminidase (NA) protein from influenza virus A/shorebird/Delaware/127/1997 (H6N2)[1,2] was produced in Sf9 insect cells using a baculovirus expression vector system.[3,4] Recombinant N2 NA protein was purified using conventional chromatographic techniques.

Material Provided:

Each vial contains 0.25 mL of purified recombinant N2 NA protein in 20 mM MOPS (pH 7.0) and 0.1% Tergitol. The concentration, expressed as μg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

Purified recombinant N2 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-657 is biologically active in a neuraminidase assay. NR-657 is specific to the N2 NA subtype of influenza virus as determined in serological neuraminidase inhibition (NI) assays. NR-657 demonstrates reactivity in NI and ELISA assays within the N2 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: N2 Neuraminidase (NA) Protein from Influenza Virus, A/shorebird/Delaware/127/1997 (H6N2), Recombinant from baculovirus, NR-657."

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/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for use in humans.

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NR-657 is claimed in U.S. Patent Numbers 5,762,939 and 6,103,526, and the continuations, continuations-in-part, re-issues and foreign counterparts thereof. Commercial use also requires a license from Protein Sciences Corporation, Meriden, Connecticut. For information call 203-686-0800.

References:

1. Webby, R. J., P. R. Woolcock, S. L. Krauss, and R. G. Webster. "Reassortment and Interspecies Transmission of North American H6N2 Influenza Viruses." Virology 295 (2002): 44–53. PubMed: 12033764.
2. Widjaja, L., et al. "Matrix Gene of Influenza A Viruses Isolated from Wild Aquatic Birds: Ecology and Emergence of Influenza A Viruses." J. Virol. 78 (2004): 8771–8779. PubMed: 15280485.

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3. 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.
4. 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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