

Polyclonal Anti-Influenza Virus N5 (Nav5) Neuraminidase (NA), A/shearwater/Australia/1/72 (H6N5), (antiserum, Goat)

Catalog No. NR-3143

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

Lot (NIAID Catalog) No. V-309-592-157

For research use only. Not for human use.

Contributor:

National Institutes of Allergy and Infectious Diseases (NIAID),
National Institutes of Health (NIH)

Product Description:

Reagent: Polyclonal antiserum

Host: Goat

Immunizing Antigen: Influenza Virus N5 (Nav5) Neuraminidase
(NA), A/shearwater/Australia/1/72 (H6N5)

Adjuvant: Freund's Complete Adjuvant

Material Provided/Storage:

Content: Lyophilized serum

Original Volume: 1.0 mL

Storage Temperature: 4°C

Functional Activity:

Neuraminidase Inhibition (NI):

Conditions: Neuraminidase (NA) activity was assayed by the method of Warren¹, except that the color was extracted into *n*-butanol containing 5% (v/v) concentrated hydrochloric acid.² NI tests were performed as described.³ To preclude steric inhibition in the NI tests, an antigenic hybrid possessing an irrelevant hemagglutinin (HA) subunit was used.

Titer to Isolated Subunits (old nomenclature in parentheses):

H6N5 (H0Nav5) A/shearwater/Australia/1/72: 1:2000

H1N1 (H0N1) from A/New Jersey/8/76: < 1:20

H2N2 (N2) from A/Singapore/1/57: < 1:20

H7N7 (Heq1Neq1) from A/equine/Prague/1/56: < 1:20

H3N8 (Heq2Neq2) from A/equine/Miami/1/63: < 1:20

H11N6 (Hav3Nav1) from A/duck/England/56: < 1:20

H5N3 (Hav5Nav2) from A/tern/South Africa/61: < 1:20

H8N4 (Hav8Nav4) from A/turkey/Ontario/6118/68: < 1:20

Double Immunodiffusion:

Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS⁴

Positive Reaction:

N5 (Nav5)

Negative Reaction:

Ribonucleoprotein (RNP)

Single Radial Diffusion:

Negative Reaction:

Matrix protein

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Polyclonal Anti-Influenza Virus N5 (Nav5) Neuraminidase (NA), A/shearwater/Australia/1/72 (H6N5), (antiserum, Goat), NR-3143."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

Disclaimers:

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

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC[®] nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC[®] nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC[®] and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC[®], their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a

license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Warren, L. "The Thiobarbituric Acid Assay of Sialic Acids." J. Biol. Chem. 234 (1959): 1971–1975. PubMed: 13672998.
2. Aminoff, D. "Methods for the Quantitative Estimation of N-acetylneuraminic Acid and their Application to Hydrolysates of Sialomucoids." Biochem. J. 81 (1961): 384–392. PubMed: 13860975.
3. Webster, R. G. and H. G. Pereira. "A Common Surface Antigen in Influenza Viruses from Human and Avian Sources." J. Gen. Virol. 3 (1968): 201–208. PubMed: 5698682.
4. Schild, G. C. and H. G. Pereira. "Characterization of the Ribonucleoprotein and Neuraminidase of Influenza A Viruses by Immunodiffusion." J. Gen. Virol. 4 (1969): 355–363. PubMed: 4977660.

ATCC® is a trademark of the American Type Culture Collection.