

2-(3'-Methoxyphenyl)-N-Acetyl- α -Neuraminic Acid (MPN)

Catalog No. NR-4016

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

Lot (NIAID Catalog) No. G-022-902

For research use only. Not for human use.

Contributor:

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

Product Description:

NIAID Class: Research Reference Reagent

Reagent: 2-(3'-methoxyphenyl)-N-acetyl- α -neuraminic acid (MPN)

Description: The compound, 2-(3'-methoxyphenyl)-N-acetyl- α -neuraminic acid (MPN) is synthetic small molecular weight (423 daltons) substrate for neuraminidase (EC 3.2.1.18). It can be used as a chromogenic substrate to localize viral, bacterial or mammalian neuraminidases during procedures such as polyacrylamide gel electrophoresis, immunodiffusion, tissue culture or viral plaque assay, and in the quantitative measurement and standardization of neuraminidase activity.

Material Provided/Storage:

Volume: 50 mg

Storage Temperature: Room temperature (dry atmosphere)

Note: BEI Resources was asked to distribute this compound from NIAID's historical repository. Recent characterization information is not yet available.

Producer and Contract:

Aldrich Chemical Co., AI 42526

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: 2-(3'-Methoxyphenyl)-N-Acetyl- α -Neuraminic Acid (MPN), NR-4016."

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.

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References:

1. Palese, P., D. Bucher, and E. D. Kilbourne. "Applications of a Synthetic Neuraminidase Substrate." Appl. Microbiol. 25 (1973): 195-201. PubMed: 4121031.

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