Sialic Acid (N-Acetylneuraminic Acid)





VASTNESS BIOTECH CO., LTD







Sialic acid is a group of neurotransmitters (9-carbon monosaccharides), known as"N-acetylneuraminic acid". It is a naturally occurring carbohydrate and a ubiquitous substance in the biological world, widely present in vertebrates, mammals, and various plant tissues Sialic acid is one of the eight essential sugar nutrients for the human body, with the main food source being breast milk, followed by milk, eggs, and cheese.



Sialic acid was first extracted from salivary gland mucin and named after the high content of sialic acid in bird's nest, ranging from 7% to 12%. Therefore, sialic acid is also known as "bird's nest acid".

Our product is manufactured using food-grade glucose and corn syrup as raw materials, which undergo a process of fermentation, filtration, sterilization, hydrolysis, and purification with Escherichia coli to obtain the final product.

Sialic Acid (N-Acetylneuraminic Acid) Scientific Research

Glycoconjugate Journal 2000 Jul-Sep;17(7-9):485-99.

DOI: 10.1023/a:1011062223612

Conclusion: Research has found that sialic acid can inhibit white blood cell adhesion and combat inflammation, exerting antibacterial and anti-inflammatory effects. Numerous studies have shown that sialic acid not only interacts with bacteria, but may also interact with viruses to exert antiviral functions.

③《Recent progress in antiviral chemotherapy for



respiratory syncytial virus infections *EXPERT Opinion on Investigational Drugs* [01 Feb2000,9(2):221-235] DOI:10.1517/13543784.9.2.221

Conclusion: Sialic acid and its derivatives play an important role in inhibiting sialidase and combating respiratory syncytial viruses.

Inhibition of human parainfluenza virus type 1 sialidase by analogs of 2-deoxy-2,3-didehydro-N-acety Ineuraminic acid & Glycoconjugate Journal 18, 331-337,2001 DOI:10.1023/A:1013617232576

Conclusion: Sialic acid and its derivatives play important roles in inhibiting sialidase and combating parainfluenza viruses.

Conclusion: Sialic acid and its derivatives play an important role in inhibiting sialidase and resisting influenza viruses.

Antiviral effect of sulfated sialyl lipid against a clinical strain of adenovirus *Nippon Ganka Gakkai Zasshi 01 Apr 2003 , 107(4):196-201*

Conclusion: Sialic acid and its derivatives play an important role in inhibiting sialidase and anti adenovirus activity.



 Initial Interaction of Rotavirus Strains with

 N-Acetylneuraminic (Sialic) Acid Residues on the Cell

 Surface Correlates with VP4 Genotype,Not Species of

 Origin
 Journal of virology, Apr.2002,p.4087-4095 DOI :

 10.1128/JVI.76.8.4087-4095.2002

Conclusion: Sialic acid and its derivatives play an important role in inhibiting sialidase and resisting rotavirus.

 Image: Wang Provide the State
 Image: Wang Prove Providetthe State
 Image: Wang Prove Provide the

Conclusion: Sialic acid has various physiological functions and plays a very important role in regulating human physiological and biochemical functions, such as anti-inflammatory, influenza treatment, antiviral, anti-tumor, etc.

The efficacy of N-acetylneuraminic acid: The "brain gold" of intellectual development: N-acetylneuraminic acid plays a mediating role in gangliosides in the brain. Improve intestinal absorption capacity

Anti influenza virus: promoting intestinal antibacterial detoxification,



N-acetylneuraminic acid on cell membrane proteins plays a key role in improving cell recognition ability, detoxifying cholera toxin, preventing pathological Escherichia coli infection, and regulating the half-life of blood proteins.

Improving immunity: N-acetylneuraminic acid can enhance the body's immunity, especially in children.
 Longevity enhancing: N-acetylneuraminic acid has protective and stabilizing effects on cells
 Antioxidation and anti-aging: N-acetylneuraminic acid can consume toxic hydrogen peroxide (H2O2)

Application of N-acetylneuraminic acid

Due to the physiological versatility of N-acetylneuraminic acid, there are markets in the following fields:

Medical products, anti influenza and antiviral, etc

Infant formula

Food ingredients and nutritional supplements

Cosmetics

Production dosage forms: capsules, powders, solid beverages, dairy products/infant formula, candies, specialty foods, etc.





Please reach out to us if you need any product

of Sialic Acid

Vastness Biotech Co.,Ltd

Address: Room 3104, Unit 1, Building 4, No. 11 Pukou Avenue, Nanjing Zone, Jiangsu Free Trade Zone, China Tel: +86(0)25 58889303

Website: https://www.sy-vastness.com