N-Acetylneuraminic Acid CAS 131-48-6 Applications and Benefits of Sialic Acid

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Firsky
- Model Number: FS-CAS 131-48-6
- Minimum Order Quantity: 1KG
- Packaging Details: 1kg, 5kg, 15kg, 20kg, 25kg can be packed in different specifications. Packaging can be customized according to customer requirements. Aluminium foil bag and carton.
- Delivery Time: 7-15 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 2000T

Product Specification

- Shelf Life: 2 Years
- Product Name: N-Acetylneuraminic Acid
- CAS NO: 131-48-6
- Purity: 99%

Product Description

Product Description

Product Name:	N-Acetylneuraminic Acid
Synonyms:	sialic acid powder, Lactaminic acid, N-acetyl-D-neuraminic acid
CAS:	131-48-6
MF:	$C_{11}H_{19}NO_9$
MW:	309.270
solubility	Soluble in water
form	White liquide

Description

N-Acetylneuraminic Acid (CAS 131-48-6), also known as sialic acid. Explore the remarkable applications and benefits of this naturally occurring compound.
Glycosylation Precursor: N-Acetylneuraminic Acid is a vital precursor in the biosynthesis of glycoproteins and glycolipids. It plays a crucial role in the addition of sialic acid residues to glycan chains, a process known as glycosylation. Glycosylation impacts protein structure, stability, cell adhesion, immune responses, and other essential cellular functions.
Therapeutic Potential: N-Acetylneuraminic Acid has garnered significant interest in the pharmaceutical field. It finds application as an ingredient in various drug formulations, particularly those targeting viral infections, cancer, and inflammatory conditions. Additionally, it contributes to the development of drug delivery systems and serves as a component in vaccines.
Diagnostic Marker: Sialic acids, including N-Acetylneuraminic Acid, are utilized as diagnostic markers in various tests. Alterations in sialic acid levels or structures can indicate specific diseases or conditions. The detection and analysis of sialic acids provide valuable insights in clinical chemistry, immunology, and cancer research.
Nutritional Supplementation: N-Acetylneuraminic Acid naturally occurs in certain foods, notably in animal-derived sources like milk, eggs, and meat. It is also employed as an additive in the food industry due to its functional properties. Incorporating N-Acetylneuraminic Acid into dietary supplements or functional foods can support immune function, gut health, and overall well-being.
Research and Laboratory Applications: N-Acetylneuraminic Acid is widely used in scientific research as a reference compound and as a substrate in enzymatic assays. Its utilization enables the study of sialic acid metabolism, protein-carbohydrate interactions, and the synthesis of sialylated compounds.
When incorporating N-Acetylneuraminic Acid (CAS 131-48-6) into your applications, it is essential to consult scientific literature, regulatory guidelines, and domain experts to ensure safe and appropriate usage.

Application

N-Acetylneuraminic Acid, also known as sialic acid or Neu5Ac, is a naturally occurring compound that plays important roles in various biological processes. Here are some common usages and applications of N-Acetylneuraminic Acid (CAS 131-48-6):
Glycosylation: N-Acetylneuraminic Acid is a crucial component in the biosynthesis of glycoproteins and glycolipids. It serves as a precursor molecule for the addition of sialic acid residues to glycan chains, a process known as glycosylation. Glycosylation plays a vital role in protein folding, stability, cell adhesion, immune responses, and other cellular functions.
Pharmaceuticals and Therapeutics: N-Acetylneuraminic Acid has been investigated for its potential therapeutic applications. It may be used as an ingredient in pharmaceutical formulations, particularly in drugs targeting viral infections, cancer, or inflammatory conditions. It can also be used in the development of drug delivery systems and as a component in vaccines.
Diagnostic Tools: Sialic acids, including N-Acetylneuraminic Acid, are used as markers in diagnostic tests. Changes in sialic acid levels or structures can indicate certain diseases or conditions. Detection and analysis of sialic acids can provide valuable information in fields such as clinical chemistry, immunology, and cancer research.
Food and Nutrition: N-Acetylneuraminic Acid is naturally present in certain foods, particularly in animal-derived sources such as milk, eggs, and meat. It is also used as an additive in the food industry for its functional properties. N-Acetylneuraminic Acid can be incorporated into dietary supplements or functional foods to support various health benefits, including immune function and gut health.
Research and Laboratory Studies: N-Acetylneuraminic Acid is commonly used in scientific research as a reference compound or as a substrate in enzymatic assays. It enables the study of sialic acid metabolism, protein-carbohydrate interactions, and the synthesis of sialylated compounds.
It's important to note that the specific usage and application of N-Acetylneuraminic Acid may vary depending on the context and intended purpose. Researchers, pharmaceutical companies, and food manufacturers often tailor its usage and formulations based on specific requirements and desired outcomes.

FAQ

How do I make a purchase?
We advise that you speak with our customer support personnel before placing an order because the market price of chemical raw materials fluctuates often
1. Please let me know which products you require and how many of each you need.
2. We will provide you with the best pricing right away, including delivery charges.

3. If the price seems reasonable to you, you can select a payment option to complete the transaction.
4. After we confirm your payment, your shipment will be wrapped and dispatched within 24 hours.
5. Two days after the package is sent out, a tracking number and packing photo will be provided.
6. We wish you a wonderful shopping experience and encourage you to get in touch with us if there are any problems.

Which delivery alternatives are available?
All Fushikai orders are shipped from Japan using FEDEX, UPS, DHL, Airmail, Surface Mail, EMS (Japan Post), and Economical Air (SAL). Depending on the various nations, we will select the best choice. Once payment has been received, the approximate delivery time is 5-7 working days.

How are your products verified?
We use our own quality control team to inspect each batch of products. Only at least 98% of pharmaceutical raw materials are used in the synthesis process, rather than cheap sources that are replicated using discarded chemical ingredients. Multiple tests are conducted using cutting-edge equipment to ensure perfect accuracy in determining the potency, purity and quality of ingredients and finished products.

Does a discount apply to large orders?
After your order reaches a particular value, there is a large discount. Several seasonal sales and promotions are available from us.

What forms of payment do you accept?
We accept payments with Western Union, Bitcoin, e-transfers, bank transfers, MoneyGram, and Alipay in addition to all other forms of cryptocurrency.

Do you deliver to parcel lockers at PO boxes?
YES, we could deliver to parcel lockers at PO boxes!

Can I get a tracking number from you?
We will provide you the tracking number and some images of the items you ordered as soon as the shipment is planned. For the most up-to-date tracking updates, please go to our preferred site.

FIRSKY® **Firsky International Trade (Wuhan) Co., Ltd**

+86 15387054039 admin@firsky-cn.com firskytech.com

No. 7, Xujiadai, Xin'andu Office, East-West Lake District, Wuhan, China