Beta-D-Glucose Pentaacetate CAS 604-69-3 99% powder

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Firsky
- Model Number: FS-604-69-3
- 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: 7-15days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 2000T

Product Specification

- Product Name: B-D-Glucose Pentaacetate
- CAS NO: 604-69-3
- Purity: 99%
- Shelf Life: 2 Years

Product Description

Specifications:

Chemical Name	b-D-Glucose Pentaacetate
Synonyms	β-D-Glucopyranose 1,2,3,4,6-Pentaacetate; 1,2,3,4,6-Penta-O-acetyl-β-D-
CAS Number	604-69-3
Molecular Formula	$C_{16}H_{22}O_{11}$
Appearance	White to Off-White Solid
Melting Point	128-130°C
Molecular Weight	390.34
Storage	4°C
Solubility	Chloroform (Slightly), Methanol (Slightly)
Category	Building Blocks; Carbohydrates;
Applications	D-Glucose pentaacetate was reported to stimulate insulin release in rat pancreatic islets. Only a-D-glucose pentaacetate caused an immediate increase in insulin output. The b-anomer of D-glucose pentaacetate first transiently inhibited insulin release, this initial effect being followed by a secondary rise in secretory rate.

Description:

Beta-D-glucose pentaacetate, CAS 604-69-3, is a high-value chemical derivative with numerous applications in the pharmaceutical, cosmetic and food industries. Below is a detailed product description of this extraordinary molecule:

β-D-glucose pentaacetate is a colorless to slightly yellow crystalline powder with a molecular formula of C13H16O12 and a molecular weight of 332.264. Soluble in water and common organic solvents, and has good stability under environmental conditions. β-D-glucose pentaacetate is mainly synthesized from glucose and acetic anhydride and used as raw material for various downstream products.

In the pharmaceutical industry, β-D-glucose pentaacetate is used as a raw material for the synthesis of antibiotics, antiviral drugs and other pharmaceutical intermediates. It is a key intermediate in the production of certain antibiotics, such as amoxicillin trihydrate, which is widely used to treat infections caused by Gram-negative bacteria.

In cosmetics, beta-D-glucose pentaacetate is used as a skin conditioner and moisturizer. It improves skin's hydration and elasticity while also acting as a UV blocker to protect skin from UV damage. Beta-D-glucose pentaacetate is also used in cosmetics as a preservative to extend the shelf life of the product and maintain product quality.

In the food industry, β-D-glucose pentaacetate is used as a preservative and stabilizer in foods such as juices, jams, and yogurt. It helps extend the shelf life of these products by preventing microbial growth and maintaining stability during storage. Beta-D-glucose pentaacetate is also used as a flavoring agent in some beverages and candies to enhance their taste.

Application:

Beta-D-glucose pentaacetate, CAS 604-69-3, has a variety of applications in different fields. Let's explore some of the key applications of β-D-glucose pentaacetate:

1. Chemical synthesis: β-D-glucose pentaacetate is commonly used as a reagent in organic synthesis. Its acetyl group can be selectively modified or removed, allowing the synthesis of various glucose derivatives. The compound is used in the preparation of pharmaceutical intermediates, fine chemicals and other complex organic molecules.

2. Flavor and fragrance industry: β-D-glucose pentaacetate is used as a masking agent and stabilizer in the flavor and fragrance industry. Its acetyl groups provide a protective coating that can reduce or eliminate undesirable flavors or aromas in some products. It helps enhance the overall flavor profile and stability of foods, beverages and spices.

3. Pharmaceutical applications: β-D-glucose pentaacetate can be used in pharmaceutical preparations. It can be used as a solubility enhancer or drug delivery system component to improve the solubility and bioavailability of certain drugs. In addition, the compound's chemical stability and compatibility make it useful in the formulation of a variety of pharmaceutical products.

4. Research and laboratory uses: β-D-glucose pentaacetate is commonly used in research laboratories as a starting material or reagent for organic synthesis. It is used in the synthesis of complex carbohydrates, glycosides and other bioactive compounds. Its versatility and stability make it a valuable tool for researchers in fields such as biochemistry, medicinal chemistry, and chemical biology.

It is important to note that proper handling and safety precautions should be followed when using beta-D-glucose pentaacetate as it is a potentially hazardous chemical. Additionally, specific applications and uses of β-D-glucose pentaacetate may vary based on industry and intended purpose.

Advantage:

1. Firsky (Wuhan) continues to make efforts to steadily offer clients high-quality items. We have put in place a reliable internal quality management system and are always working to increase quality, decrease deviation, and eliminate waste.
2. If you have any questions, don't hesitate to ask them; we'll get back to you within 48 hours.
3.After getting the items, if you have any questions, don't hesitate to get in touch with us. We promise to compensate you in full if we were the source of the loss.

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.

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