Off White Solid 2 Deoxyadenosine Monohydrate CAS 16373-93-6

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: FIRSKY
- Model Number: 16373-93-6
- 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: 7-15days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 2000T

Product Specification

- Product Name: 2'-Deoxyadenosine Monohydrate
- CAS NO: 16373-93-6
- Molecular Formula: $C_{10}H_{13}N_5O_3 \cdot (H_2O)$
- Molecular Weight: 251.25 + (18.02)
- Highlight: **2 Deoxyadenosine Monohydrate 16373-93-6**, **White Solid 2 Deoxyadenosine Monohydrate**

Product Description

2'-Deoxyadenosine Monohydrate CAS 16373-93-6

Chemical Name	2'-Deoxyadenosine Monohydrate
Synonyms	2'-Deoxy-β-D-adenosine Monohydrate; 9-(2-Deoxy-β-D-erythro-pentofuranosyl)adenine; 9-(2-Deoxy-β-D-erythro-pentofuranosyl)-9H-purin-6-amine Hydrate; Adenine Deoxyribonucleoside Hydrate; Adenine Deoxyribose Hydrate; Adenyldeoxyriboside Hydrate; Deoxyadenosine Hydrate; Desoxyadenosine Hydrate; NSC 141848; NSC 143510; NSC 83258; dA; 1-(6-Amino-9H-purin-9-yl)-1,2-dideoxy-β-D-ribofuranose Hydrate; 2-Deoxyadenine-9-β-D-erythro-pento-furanoside Hydrate;
CAS Number	16373-93-6
Alternate CAS #	958-09-8
Molecular Formula	$C_{10}H_{13}N_5O_3 \cdot (H_2O)$
Appearance	White to Off-White Solid
Melting Point	190-193°C
Molecular Weight	251.25 + (18.02)
Storage	4°C
Solubility	DMSO (Slightly), Methanol (Slightly)
Category	Building Blocks; Pharmaceutical/API Drug Impurities/Metabolites;
Applications	2'-Deoxyadenosine Monohydrate is used in the synthesis of 5'-modified 2'-deoxyadenosine analogues as anti-hepatitis C virus agents.

Description

2'-Deoxyadenosine Monohydrate, CAS 16373-93-6: A Crucial Component of DNA with Added Hydration
Enter the realm of 2'-Deoxyadenosine Monohydrate, CAS 16373-93-6, a vital molecular entity that not only serves as a fundamental building block of DNA but also embraces an essential water molecule in its structure.

DNA Foundation: Just like its counterpart, 2'-Deoxyadenosine, this molecule is a fundamental component of DNA, the genetic code that holds the instructions for all living organisms.
Hydration Enhances Function: The addition of a water molecule, as seen in the monohydrate form, can influence the molecule's properties and interactions. In biological contexts, hydration often plays a crucial role in molecular processes.
Genetic Blueprint: 2'-Deoxyadenosine Monohydrate, like its dehydrated counterpart, contributes to the formation of the A-T base pair, a fundamental element in the DNA double helix that encodes genetic information.
Replication and Cell Division: During DNA replication and cell division, molecules like 2'-Deoxyadenosine Monohydrate are essential for copying genetic information accurately and transmitting it to new cells.
Scientific Inquiry: Researchers continually investigate the properties and functions of molecules like 2'-Deoxyadenosine Monohydrate, contributing to our understanding of genetics, genomics, and molecular biology.
Elevate Your Scientific Understanding: Understanding the significance and potential of 2'-Deoxyadenosine Monohydrate, CAS 16373-93-6, underscores its critical importance in the fields of genetics, molecular biology, and the exploration of life's intricate processes.
Whether you're a geneticist delving into the mysteries of DNA, a biologist uncovering the secrets of life's diversity, or a science enthusiast curious about the molecules that underpin all living things, unveiling the potential of 2'-Deoxyadenosine Monohydrate offers profound insights into its pivotal role in advancing scientific knowledge and supporting the remarkable complexity of life on Earth.
Your journey to discover the significance of this molecule, from its role in DNA to its unique hydration aspect, begins here. Delve into its uses to gain a deeper understanding of its vital place in the intricate web of life and the potential effects of added hydration on its function. Embrace the possibilities of a molecule that carries the genetic instructions for all living organisms, now with a touch of hydration.

Application

2'-Deoxyadenosine Monohydrate, with the CAS number 16373-93-6, is a form of 2'-deoxyadenosine that contains one molecule of water. It is a nucleoside composed of the nucleobase adenine, the sugar deoxyribose, and a water molecule. Here is its main usage:
Laboratory research: 2'-Deoxyadenosine monohydrate is commonly used in laboratory research, particularly in biochemistry, molecular biology, and related fields. It serves as a reference compound and standard in various studies involving nucleosides, nucleotides, and DNA. Researchers use it to investigate the structure, function, and interactions of nucleic acids, as well as for enzymatic assays, cell culture experiments, and other in vitro studies.
Drug development: 2'-Deoxyadenosine monohydrate and its derivatives can be modified to create nucleoside analogs. These analogs are used in medicinal chemistry and drug development to design compounds that can selectively target and interfere with DNA replication or other cellular processes. Nucleoside analogs have been employed in the treatment of viral infections, cancers, and autoimmune diseases.
It's important to note that the usage of 2'-deoxyadenosine monohydrate and its derivatives is primarily limited to laboratory and research settings. These compounds are not intended for human consumption or use in clinical applications without appropriate modifications, formulation, and regulatory approval.
If you are considering working with 2'-deoxyadenosine monohydrate or its analogs, it is crucial to follow proper safety protocols, handle the substance in a well-equipped laboratory, and adhere to the regulations and guidelines provided by relevant authorities, such as safety data sheets (SDS) and local regulations for chemical handling and disposal.

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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