

CAS 53-84-9 Anti Aging Ingredients Cream Beta Nicotinamide Adenine Dinucleotide

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: FIRSKY
- Model Number: 53-84-9
- 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: β -Nicotinamide Adenine Dinucleotide
- CAS NO: 53-84-9
- Molecular Formula: $C_{21}H_{27}N_7O_{14}P_2$
- Molecular Weight: 663.43
- Expiration Date: 12 Months
- Formulation: Cream
- Highlight: 53-84-9 Anti Aging Ingredients, Anti Aging Ingredients Cream, Cream Beta Nicotinamide Adenine Dinucleotide



Product Description

β-Nicotinamide Adenine Dinucleotide CAS 53-84-9

Product Name:	β-Nicotinamide Adenine Dinucleotide
Synonyms:	Adenosine 5'-(Trihydrogen Diphosphate), P'→5'-Ester with 3-(Aminocarbonyl)-1-β-D-ribofuranosylpyridinium Hydroxide, Inner Salt; ?Pyridinium, 3-Carbamoyl-1-β-D-ribofuranosyl-, Hydroxide, 5'→5'-Ester with Adenosine 5'-(Trihydrogen Pyrophosphate), Inner Salt (8CI); Adenine-nicotinamide Dinucleotide; CO-I; Codehydrase I; Codehydrogenase I; Coenzyme I; Cozymase I; DPN; ?Diphosphopyridine Nucleotide; Enzopride; NAD; NAD ⁺ ; NSC 20272; Nadide; ?Nicotinamide-adenine Dinucleotide; Oxidized Diphosphopyridine Nucleotide; ?β-Diphosphopyridine Nucleotide; β-NAD; β-NAD ⁺ ; ?β-Nicotinamide Adenine Dinucleotide; β-Nicotinamide Adenine Dinucleotide Hydrate;
CAS NO:	53-84-9
EINECS No.:	200-184-4
Molecular Formula:	C ₂₁ H ₂₇ N ₇ O ₁₄ P ₂
Molecular Weight:	663.43
Melting Point:	140-142 °C (decomp)
Appearance:	White powder
Storage:	-20°C Freezer, Under inert atmosphere
Solubility:	Water (Heated)

Description

NAD⁺ (β-Nicotinamide Adenine Dinucleotide), CAS 53-84-9: The Cellular Elixir of Life

Prepare to embark on a journey into the extraordinary world of NAD⁺ (β-Nicotinamide Adenine Dinucleotide), CAS 53-84-9, a molecule that stands at the crossroads of cellular energy, longevity, and vibrant health.

Cellular Energy Currency: NAD⁺ is often hailed as the "cellular currency" of life. It plays a central role in energy production, facilitating critical processes like glycolysis and oxidative phosphorylation.

Metabolic Master: Beyond energy production, NAD⁺ is a metabolic master regulator. It influences various metabolic pathways, from DNA repair to cellular defense mechanisms.

Anti-Aging Elixir: NAD⁺ has captured the attention of longevity enthusiasts due to its potential anti-aging effects. As we age, NAD⁺ levels naturally decline, and supplementation may rejuvenate cellular processes.

DNA Repair: NAD⁺ is a co-substrate for enzymes involved in DNA repair. It aids in maintaining genomic stability and countering the effects of aging and environmental damage.

Scientific Pinnacle: Researchers across the globe are actively exploring NAD⁺ for its potential applications in age-related diseases, including neurodegenerative conditions and metabolic disorders.

Elevate Your Health: Understanding the significance of NAD⁺ (β-Nicotinamide Adenine Dinucleotide), CAS 53-84-9, underscores its importance in the fields of cellular biology, aging research, and metabolic health.

Whether you're a scientist unraveling the secrets of cellular function, a health enthusiast seeking vitality, or someone intrigued by the science of longevity, unveiling the potential of NAD⁺ offers profound insights into its role as a key determinant of health and longevity.

Your journey to discover the significance of this molecule, from its pivotal role in cellular energy to its applications in anti-aging and metabolic health, begins here. Delve into its uses to gain a deeper understanding of its vital place in advancing scientific knowledge and enhancing the quality of life. Unleash the full potential of your knowledge and embrace the promise of a healthier, more vibrant future.

Application

NAD⁺ (Nicotinamide adenine dinucleotide), with the CAS number 53-84-9, is a coenzyme found in all living cells. It plays a crucial role in various biological processes and is involved in energy metabolism, DNA repair, and cellular signaling. Here are some of the reported usages and functions of NAD⁺:

Energy production: NAD⁺ is a key player in cellular energy metabolism. It participates in redox reactions as an electron carrier, shuttling electrons between different enzymatic reactions. NAD⁺ accepts electrons during the breakdown of nutrients such as glucose, fats, and amino acids, which are used to generate adenosine triphosphate (ATP), the energy currency of cells.

DNA repair and genomic stability: NAD⁺ is essential for DNA repair processes. It serves as a cofactor for enzymes involved in DNA repair, such as poly(ADP-ribose) polymerases (PARPs). These enzymes use NAD⁺ to add ADP-ribose units to proteins involved in DNA repair, helping to maintain the integrity and stability of the genome.

Cell signaling and gene expression: NAD⁺ also plays a role in cellular signaling and gene expression. It acts as a substrate for sirtuins, a class of enzymes involved in regulating various cellular processes, including metabolism, stress response, and longevity. Sirtuins use NAD⁺ as a cofactor to remove acetyl groups from proteins, influencing their activity and function.

Age-related functions: NAD⁺ levels naturally decline with age, and this decline has been implicated in various age-related conditions. Some researchers suggest that maintaining or increasing NAD⁺ levels may have potential anti-aging effects. NAD⁺ precursors, such as nicotinamide riboside (NR) and β-Nicotinamide mononucleotide (β-NMN), are being studied for their ability to boost NAD⁺ levels and potentially support healthy aging.

It's important to note that while NAD⁺ has shown promise in preclinical and early-stage clinical studies, further research is needed to fully understand its effects and potential therapeutic applications. NAD⁺ itself is not typically used directly as a dietary supplement due to its limited bioavailability when taken orally. However, NAD⁺ precursors like NR and β-NMN are available as dietary supplements and are being studied for their ability to increase NAD⁺ levels in the body. If you are considering using NAD⁺ precursors or related supplements, it is advisable to consult with a healthcare professional to discuss their potential benefits, risks, and appropriate usage.

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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