

# Our Warehouse Regular Stock



**Our Mission**  
**Manufacturing High Quality Ingredients**

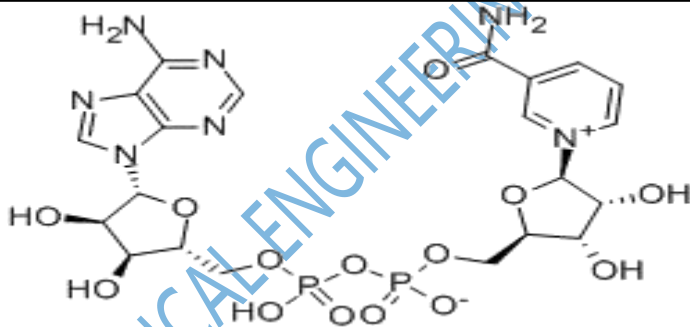
**LEADER BIOCHEMICAL GROUP**  
**XI'AN LEADER BIOCHEMICAL ENGINEERING CO.,LTD**  
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URL: [www.leader-biogroup.com](http://www.leader-biogroup.com) [www.leaderbio-ingredients.com](http://www.leaderbio-ingredients.com)  
Factory Address: No.39, National Aerospace Economic & Technical Development Zone, Chang'an District,Xi'an,China 710100

## Our Package with Pallet



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Product Technical Data Sheets	
Product Name	Beta-Nicotinamide Adenine Dinucleotide(NAD); Nicotinamide Adenine Dinucleotide
Synonyms Name	Beta-Nicotinamide Adenine Dinucleotide(NAD);Nicotinamide Adenine Dinucleotide; $\beta$ -Nicotinamide Adenine Dinucleotide
CAS NO.	53-84-9
MF	C <sub>21</sub> H <sub>27</sub> N <sub>7</sub> O <sub>14</sub> P <sub>2</sub>
MW	663.43
EINECS	200-184-4
Molecular Structure	
Package Standard	1KG/Foil BAG &25KG/Drum/Carton
Product Origin	CHINA
Description	<p><math>\beta</math> -Nicotinamide adenine dinucleotide (NAD<sup>+</sup>) plays a major role in metabolism as a cofactor and mobile electron acceptor. NAD<sup>+</sup> is a required oxidizing cosubstrate for many enzymes. It is reduced to NADH (Cat# N-035) which carries electrons to the electron transport chain for subsequent oxidative phosphorylation and ATP production. NAD<sup>+</sup> is capable of donating ADP-ribose moieties to a protein, producing nicotinamide in the process. Sirtuin enzymes use NAD<sup>+</sup> as a substrate to deacetylate proteins and direct activity between the nucleus and mitochondria. NAD<sup>+</sup> is regenerated by fermentation and by oxidative phosphorylation.</p>

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Application	<p><math>\beta</math> -Nicotinamide Adenine Dinucleotide is a coenzyme consisting of an adenine base and a nicotinamide base connected by a pair of bridging phosphate group. <math>\beta</math> -Nicotinamide Adenine Dinucleotide acts as a coenzyme in redox reactions, as a donor of ADP-ribose moieties in ADP-ribosylation reactions and also as a precursor of the second messenger molecule cyclic ADP-ribose. <math>\beta</math> -Nicotinamide Adenine Dinucleotide also acts as a substrate for bacterial DNA ligases and a group of enzymes called sirtuins that use NAD<sup>+</sup> to remove acetyl groups from proteins.</p> <p>Application <math>\beta</math> -Nicotinamide adenine dinucleotide ( <math>\beta</math> -NAD) is a cofactor of alcohol dehydrogenase and acts as a neuromodulator and an inhibitory neurotransmitter in visceral smooth muscles. The NAD/NADH ratio has a role in the regulation of intracellular redox potential. It thereby influences metabolic reactions in vivo. It has been used for the preparation of deacetylated tubulin. It has also been used for UDP-glucose-6-hydrogenase (UGDH) enzyme activity assay of orital fibroblast cell lysates.</p> <p><math>\beta</math> -Nicotinamide adenine dinucleotide (NAD<sup>+</sup>) and <math>\beta</math> -Nicotinamide adenine dinucleotide, reduced (NADH) comprise a coenzyme redox pair (NAD<sup>+</sup>:NADH) involved in a wide range of enzyme catalyzed oxidation reduction reactions. In addition to its redox function, NAD<sup>+</sup>/NADH is a donor of ADP-ribose units in ADP-ribosylation (ADP-ribosyltransferases; poly(ADP-ribose) polymerases ) reactions and a precursor of cyclic ADP-ribose (ADP-ribosyl cyclases).</p>
Company Profile	<p>Leader Biochemical is a large leader incorporated industry manufacturers and suppliers of advanced refined Beta-Nicotinamide Adenine Dinucleotide(NAD), From the year of 1996 when our factory was put into production to year of 2020, our group has successively produced Beta-Nicotinamide Adenine Dinucleotide(NAD)with famous reputation.</p>
The spirit of enterprise culture	<p>We believe only good quality can bring good cooperation, quality is our key spirit during our</p>

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	production, we are warmly welcome clients and partner from all over the world contact us for everlasting cooperation, Leader will be your strong, sincere and reliable partner in China.
<b>Manufacturer</b>	<b>XI'AN LEADER BIOCHEMICAL ENGINEERING CO.,LTD</b>
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