

## Nicotinamide riboside chloride

Cat. No. EXTZ-635

Lot. No. (See product label)

### Introduction

#### Description

Nicotinamide Riboside Chloride is a derivative of vitamin B3 (niacin) and the chloride form of Nicotinamide Riboside. It is one of the precursors of nicotinamide adenine dinucleotide (NAD<sup>+</sup>), an essential coenzyme in cells that participates in various critical biological processes such as energy metabolism, DNA repair, and cellular signaling. Main Functions

1. **Boosting NAD<sup>+</sup> Levels:** Nicotinamide Riboside Chloride can be converted into NAD<sup>+</sup> in the body, helping to maintain or increase intracellular NAD<sup>+</sup> levels. NAD<sup>+</sup> plays a central role in energy metabolism, such as glycolysis and the tricarboxylic acid (TCA) cycle.
2. **Supporting Cellular Energy Metabolism:** By increasing NAD<sup>+</sup> levels, Nicotinamide Riboside Chloride helps optimize mitochondrial function and promotes the production of cellular energy (ATP).
3. **Anti-Aging:** NAD<sup>+</sup> levels decline with age, and supplementing with Nicotinamide Riboside Chloride may help delay the aging process and improve age-related declines in metabolic and cognitive functions.
4. **Promoting DNA Repair:** NAD<sup>+</sup> is a substrate for DNA repair enzymes such as PARP (poly ADP-ribose polymerase). Supplementing with Nicotinamide Riboside Chloride may enhance the cell's DNA repair capacity.
5. **Supporting Cardiovascular and Neurological Health:** Research suggests that increasing NAD<sup>+</sup> levels may have positive effects on cardiovascular health and neuroprotection.

### Product Information

<b>Form</b>	Powder
<b>CAS No.</b>	23111-00-4
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>15</sub> N <sub>2</sub> O <sub>5</sub> -Cl
<b>Molecular Weight</b>	290.7