Creative Enzymes®

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+), 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+ Levels: Nicotinamide Riboside Chloride can be converted into NAD+ in the body, helping to maintain or increase intracellular NAD+ levels. NAD+ plays a central role in energy metabolism, such as glycolysis and the tricarboxylic acid (TCA) cycle. 2. Supporting Cellular Energy Metabolism: By increasing NAD+ levels, Nicotinamide Riboside Chloride helps optimize mitochondrial function and promotes the production of cellular energy (ATP). 3. Anti-Aging: NAD+ 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+ 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+ levels may have positive effects on cardiovascular health and neuroprotection.

Product Information

Form	Powder
CAS No.	23111-00-4
Molecular Formula	C11H15N2O5-Cl
Molecular Weight	290.7