NMN
全 球 率 先 实 现 量 产
THE WORLD'S FIRST TO ACHIEVE MASS PRODUCTION
Purity
≥ 99.5%
纯度
Chiral Purity
≥ 99.99%
手性纯度
Endotoxin
< 0.1EU/mg
内毒素
常见塑化剂
未检出
Common plasticizers
were not detected
(GB)

什么是NMN?

What is NMN ?

NMN的全称烟酰胺单核苷酸。NMN是NAD+的前体。NMN对人体细胞有重要的生理功能，能在细胞中天然合成，也可以来源于多种食物，包括西兰花、卷心菜、黄瓜、毛豆、鳄梨等。

β-nicotinamide mononucleotide is the precursor of NAD+. NMN has important physiological functions in human cells, which can be synthesized naturally in cells, and can also come from a variety of foods, including broccoli, cabbage, cucumber, soybean, avocado, etc.

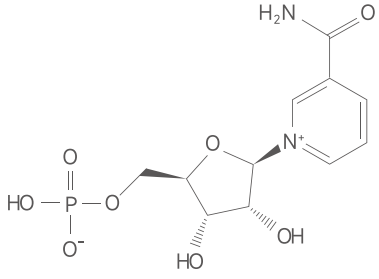
规格 Specification

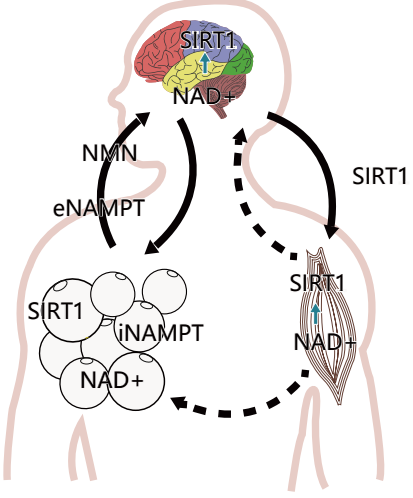
化学名称 / Chemical Name: β-烟酰胺单核苷酸 β-Nicotinamide mononucleotide（β-NMN）

分子量 / Molecular Weight: 334.22

分子式 / Molecular Formula: $C_{11}H_{15}N_2O_8P$

CAS No.: 1094-61-7





功能 Functions

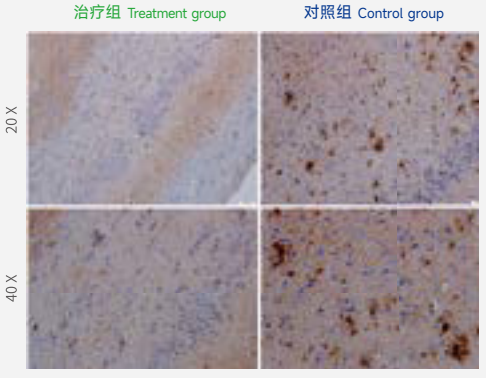
- **改善睡眠**
  Improve sleep quality
- **辅助降血脂**
  Assist in lowering blood fat
- **保护心脑血管**
  Protect cardio cerebral vessels
- **保护听力、保护视力**
  Protect hearing and eyesight
- **促进酒精代谢，解酒护肝**
  Improve alcohol metabolism, protect the liver from alcohol
- **保护大脑神经元，预防神经退行性疾病**
  Protect brain neurons and prevent neurodegenerative diseases
- **激活长寿蛋白，抑制氧化应激，延缓衰老**
  Activate longevity protein, inhibit oxidative stress, anti aging
- **激活免疫系统，促进DNA修复，预防肿瘤**
  Activate the immune system, promote DNA repair, and prevent tumors
- **改善葡萄糖耐量和胰岛素敏感性，辅助降血糖**
  Improve glucose tolerance and insulin sensitivity, assist in lowering blood sugar
- **提升NAD含量，优化细胞能量代谢，改善体力，缓解疲劳**
  Increase NAD level in blood, optimize cell energy metabolism, improve physical strength, reduce fatigue

NMN对脑部影响 Effects of NMN on the brain

AD转基因小鼠大脑海马和额叶组织 Hippocampus and frontal lobe tissue of AD transgenic mice

（邦泰生物与北京天坛医院合作研究 Bontac-Bio collaborated with Beijing Tiantan Hospital）

组织 / Organization：脑 / Brain
抗体 / Antibody：Aβ（amyloid β-protein）



- Aβ的神经笃行作用在阿尔茨海默病的病程进展中发挥着主要作用

  The neurotrophic action of Aβ plays A major role in the progression of Alzheimer's disease

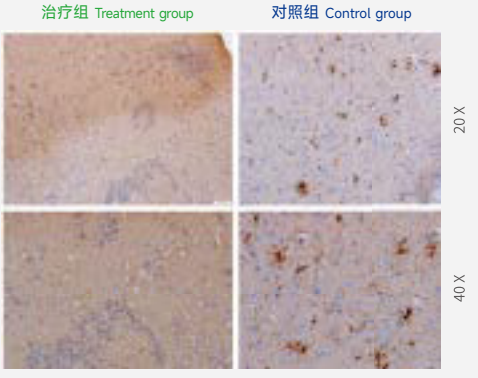
- 棕黄色Aβ阳性染色颗粒明显减少

  The brown-yellow Aβ positive staining particles decreased significantly

大脑海马（颞叶）
Brain hippocampus (Temporal lobe)

学习和记忆
Learning and Memory

组织 / Organization：脑 / Brain
抗体 / Antibody：Aβ（amyloid β-protein）



大脑额叶
Frontal lobe of brain

记忆、判断、分析、思考、操作
Remember, judge, analyze, think, manipulate

NMN在抗衰老中的作用

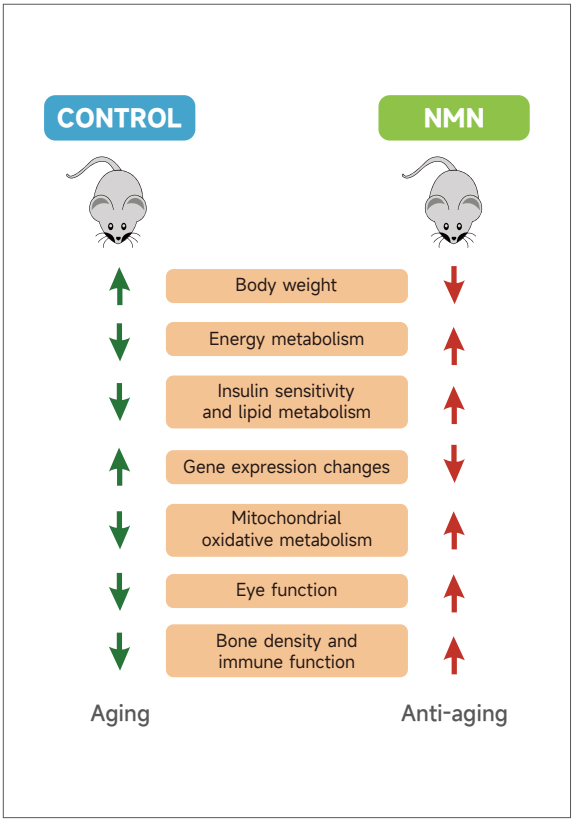
The role of NMN in anti-aging

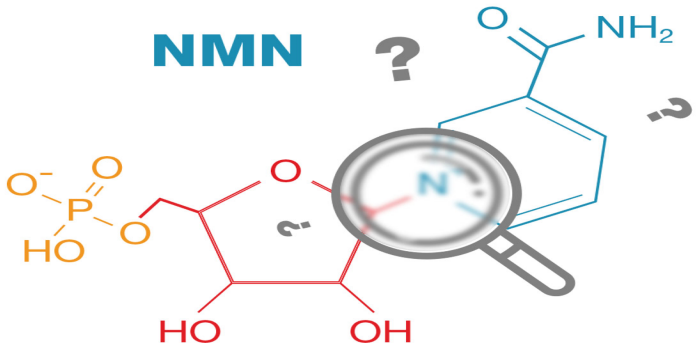
在本研究中，我们对正常衰老的普通野生型C57BL/6N小鼠进行了为期12个月的NMN给药。口服NMN可快速合成人身体组织中的NAD+。值得注意的是，NMN能有效地减轻小鼠年龄相关的生理衰退，如体重增加，体力活动增强，胰岛素敏感性和血脂水平改善等。NMN无明显的毒副作用，可以看作人类有效抗衰老的潜在药物。

（文献出自 Mills et al., 2016, Cell Metabolism 24, 795–806）

In this study, we conducted a 12-month-long NMN administration to regular chow-fed wild-type C57BL/6N mice during their normal aging. Orally administered NMN was quickly utilized to synthesize NAD+ in tissues. Remarkably, NMN effectively mitigates age-associated physiological decline in mice. Without any obvious toxicity or deleterious effects, NMN suppressed age-associated body weight gain, enhanced energy metabolism, promoted physical activity, improved insulin sensitivity and plasma lipid profile, etc .Therefore it can be considered as a potential drug candidate for anti-aging in human.

(The literature comes from Mills et al., 2016, Cell Metabolism 24, 795–806)





NMN产品特色优势

MOBELBIO LLC NMN product features and advantages

- **15项NMN国内外专利，行业领先**
  Industrial leading technology: 15 domestic and international NMN patents
- **提供一站式产品解决方案定制服务**
  Provide one-stop customized product solution
- **多项体内研究表明，邦泰NMN安全有效**
  Multiple in vivo studies show that BONTAC's NMN is safe and effective
- **Bonzyme全酶法，绿色环保，无有害溶剂残留**
  "Bonzyme"Whole-enzymatic method, environmental-friendly, no harmful solvent residues
- **哈佛大学抗衰之父大卫·辛克莱尔团队原料供应商**
  NMN raw material supplier of famous David Sinclair team of Harvard University
- **自有工厂，通过多项国际认证，确保产品高质量稳定供应**
  Self-owned factories have passed a number of international certifications to ensure high quality and stability of products
- **独家Bonpure七步纯化技术，高纯度（可达99.9%）、高稳定性**
  Exclusive"Bonpure"seven-step purification technology, high purity（up to 99.9%) and stability

NMN应用方向

NMN Application

- **医药**
  Medicine
- **化妆品**
  Cosmetic
- **保健食品**
  Health food