# 98% Human Growth Peptides (AMPK) AICAR Powder 2627-69-2 For Bodybuilding

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBY-AICAR
- Minimum Order Quantity: 5 boxes
- Price: $50-$60/box
- Packaging Details: 50mg/vial, 10 vials/box
- Delivery Time: About 3 work days after your payment
- Payment Terms: , T/T, Western Union
- Supply Ability: 20,000 boxes/month




## Product Specification

- Product Name: AICAR 50mg
- M.F: C9H14N4O5
- Fitness: 99% Pure Min
- Physical Form: White Powder
- Purity: Acadesine; 5-Aminoimidazole-4-carboxamide Ribonucleoside; 5-Aminoimidazole-4-carboxamide Riboside; AICA-riboside; AIC-Riboside
- Product Type: Vitamins, Amino Acids And Coenzymes
- Storage: Store At -20°C
- Validity: 2 Years
- CAS: 2627-69-2
- MW: 258.231
- Highlight: **Bodybuilding Human Growth Peptides Powder**, **99% Human Growth Peptides AICAR**



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## Product Description

**What is 98% Human Growth Peptides (AMPK) AICAR Powder 2627-69-2 For Bodybuilding?**
AICAR (5-aminoimidazole-4-carboxamide-1-beta-D-ribofuranoside) is a substance produced naturally by the body that stimulates AMP-activated protein kinase (AMPK), a protein that regulates metabolism in a variety of ways.AMPK acts as an energy regulator and is activated during exercise or other energy-depleting conditions in cells.

AICAR, which stimulates AMPK, can also be synthesized in the laboratory and is being evaluated in preclinical studies and human clinical trials as a therapeutic agent for the treatment of certain metabolic disorders in humans.

**How do AICAR and AMPK affect performance?**
Once activated by AICAR, AMPK acts to make energy more available. For example, it increases the use of energy from fat and causes cells to produce more mitochondria (the cell's powerhouse or energy creator.) AMPK essentially ensures that the body's various tissues do not run out of energy.

There are many situations where AMPK can be activated naturally, including hypoxia (low oxygen levels during exercise or at high altitudes), hypoglycemia (low blood sugar during exercise or fasting), use of cellular energy during muscle contraction, and any situation that disrupts energy creation within the cell.

The effects of activating AMPK are very complex as it is involved in many different metabolic pathways in the body. To date, the medical community has not found a way to target AMPK in order to treat human diseases, although studies have shown it to play a role in diabetes, heart disease, and cancer.

**Information of Aicar 50mg**

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|---|---|
| Product Name | Aicar 50mg |
| Product Type | Vitamins, Amino Acids, and Coenzymes |
| MF | C9H14N4O5 |
| Storage | Store At -20°C |
| Physical Form | White powder |
| Alias | Acadesine;5-Aminoimidazole-4-carboxamide ribonucleoside |
| MOQ | 5 boxes |

**Research and Clinical Studies**

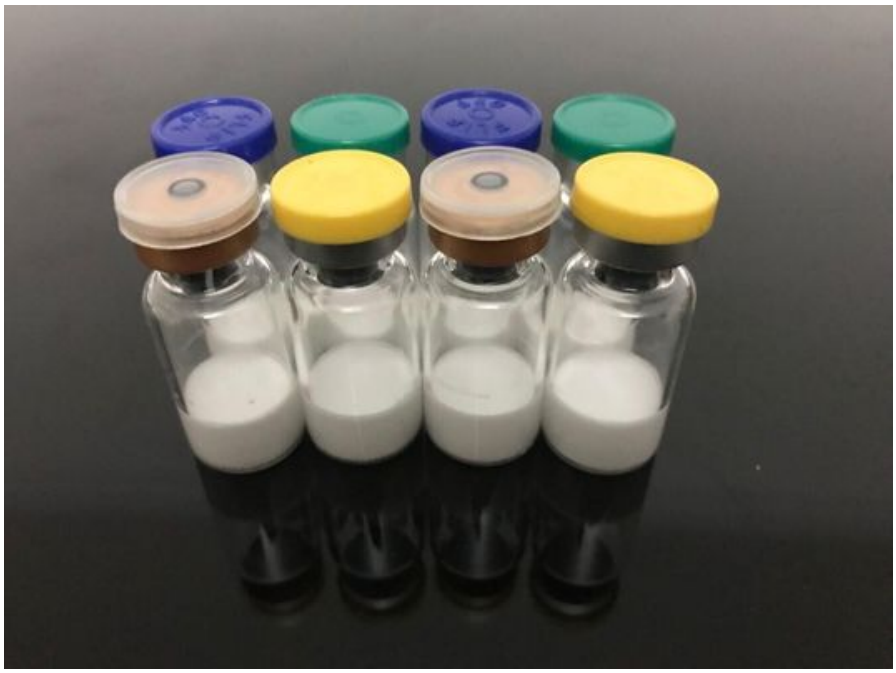
**AICAR peptides and organ protection**
AICAR may have the potential for organ protection, particularly against ischemia and reperfusion injury. This nucleotide is thought to reduce the size of myocardial infarcts and improve cardiac function in animal models of myocardial ischemia-reperfusion injury. (1) AICAR has the potential to activate AMPK and reduce oxidative stress and inflammation, which are key factors in reperfusion injury, with high potential.

A meta-analysis was designed to examine the potential of AICAR on cardiovascular and cerebrovascular complications after coronary artery bypass graft (CABG) surgery. (2) Data were collected from five randomized, placebo-controlled, double-blind clinical trials including 4043 subjects. From the results, AICAR is thought to reduce perioperative myocardial infarction, cardiac death by postoperative day 4, and the combined outcome of myocardial infarction, stroke, or cardiac death. aICAR also appears to reduce the use of ventricular assist devices in severe postoperative heart failure. The study concluded that: "In undergoing CABG, preoperative and intraoperative treatment can reduce early cardiac death, MI and combined adverse cardiovascular outcomes".

AICAR may also have protective effects on other organs. One study investigated the potential of AICAR, an AMPK activator, in an experimental model of ethanol-induced hepatic steatosis in rats. (3) The study observed that prolonged ethanol feeding appeared to result in a histologically and biochemically fatty liver; however, when AICAR was present, it appeared to attenuate the extent of the changes in the liver. AICAR was also reported to reduce hepatic SREBP-1c and reduce FAS expression, leading to reduced triglyceride synthesis in the rat liver.

**Benefits of AICAR Peptide Vial 50mg**
Increases the body's intake of glucose. We all know that glucose is one of the main sources of energy and increasing your intake means you are spending more energy than before.
It increases energy levels and keeps you active throughout the day.
Enhances metabolic effects.
As a selective supplement, it only targets skeletal cells and muscle tissue.
Studies have shown that it can help with weight loss.

**Product image of AICAR 50MG**



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