



CERTIFICATE of ANALYSIS

PRODUCT: **AICAR**
AMPK activator; [5-Aminoimidazole-4-carboxamide 1- β -D-ribofuranoside; AICA-Riboside; NSC 105823], C₉H₁₄N₄O₅, M.W. 258.23, CAS# [2627-69-2]

PRODUCT NUMBER: A-1716

LOT NUMBER: C1185

APPEARANCE: Tan powder

SOLUBILITY: Soluble in water

PURITY (HPLC): > 98%

DESCRIPTION: A cell- permeable activator of AMP-activated protein kinase (AMPK), a metabolic sensor involved in both cellular and whole body energy homeostasis. In vivo, pharmacologic activation of AMPK with AICAR mimics exercise and triggers insulin-independent glucose uptake by skeletal muscle. AICAR is able to activate the molecular circuitry of pluripotency in mESC and to induce the expression of several key regulators of pluripotency in somatic cells.

STORAGE & HANDLING: Store at -20°C. **PROTECT FROM AIR & MOISTURE!**
WARNING: HARMFUL!

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD