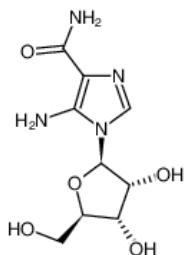


AICAR (CAS: 2627-69-2)**Catalog #: EBC51013****Biological Activity**

Synonyms	AICA Riboside, Acadesine, AICAR, NSC105823
Chemical Name	5-Amino-1-[(2R,3S,4R,5R)-tetrahydro-3,4-dihydroxy-5-(hydroxymethyl)furan-2-yl]-1H-imidazole-4-carboxamide
Application	AICAR is an inhibitor of the transcription of PPAR α , the coactivation of PPAR α
CAS No.	2627-69-2
Purity	≥99.0%
Molecular Weight	258.23
Molecular Formula	C ₉ H ₁₄ N ₄ O ₅
Shipping	Gel Pack
Storage	Store at -20° C
Target & IC₅₀	AMPK, Autophagy

Molecular Structure**Solubility**

DMSO: 51 mg/mL (197.50 mM)

Water: 20 mg/mL (77.45 mM)

PS: < 1 mg/ml refers to the product insoluble**Description**

AICAR is an adenosine analog that is phosphorylated in whole cells to form 5-aminoimidazole-4-carboxamide-1-D-ribofuranosyl-5'-monophosphate (ZMP), which stimulates AMPK activity¹. AICAR acts by entering nucleoside pools, significantly increasing levels of adenosine during periods of ATP breakdown. AICAR mimics the effects of insulin on the expression of two gluconeogenic genes PEPCK and glucose-6-phosphatase². AICAR inhibits PPAR α coactivation³ and adipocyte differentiation⁴. AICAR is a substrate for the AICAR transformylase activity of ATIC⁵. AICAR is also known as 5-amino-1- β -D-ribofuranosyl-1H-imidazole-4-carboxamide, N1-(β -D-Ribofuranosyl)-5-aminoimidazole-4-carboxamide, and Acadesine.

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