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## DATASHEET

AICAR

### Product overview

<b>Name</b>	AICAR
<b>Cat No</b>	HB2152
<b>Biological action</b>	Activator
<b>Purity</b>	>99%
<b>Description</b>	AMPK activator. Promotes osteogenic differentiation of bone marrow-derived MSCs.

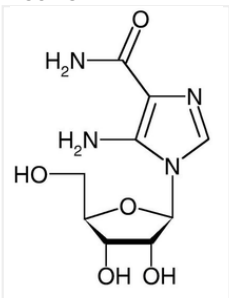
### Biological Data

<b>Biological description</b>	Cell permeable AMP-activated protein kinase (AMPK) activator. Down-regulates insulin receptor expression. Promotes differentiation and mineralization of MC3T3-E1 osteoblastic cells. Also promotes osteogenic differentiation of mesenchymal stem cells and induces astroglial differentiation in neural stem cells. Additionally induces expression of several key regulators of pluripotency in somatic cells.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in water (75mM) or DMSO (75mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	N <sup>1</sup> -(β-D-Ribofuranosyl)-5-aminoimidazole-4-carboxamide
<b>Molecular Weight</b>	258.23
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>14</sub> N <sub>4</sub> O <sub>5</sub>
<b>CAS Number</b>	2627-69-2
<b>PubChem identifier</b>	17513
<b>SMILES</b>	<chem>O[C@@H]1[C@@H](CO)O[C@@H](N2C=NC(C(N)=O)=C2N)[C@@H]1O</chem>
<b>InChiKey</b>	RTRQQBHATOEIAF-UHFFFAOYSA-N
<b>Appearance</b>	Off-white solid