

Catalog	Unit
TBI1092 - 50MG	50 mg
TBI1092 - 250MG	250 mg

Product Details

Formal Name: 5-Aminoimidazole-4-carboxamide 1- β -D-ribofuranoside.

Alternate Name: Acadesine.

Molecular Formula: C₉H₁₄N₄O₅.

Formula Weight: 258.2.

CAS Number: 2627-69-2

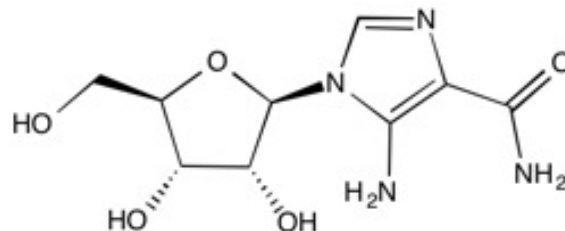
Purity: \geq 98%

Formulation: Powder.

Solubility: Soluble in DMSO or water (up to 15 mg/ml).

Storage: -20°C.

Stability: \geq 2 years.



Applications

AMPK activator.

Functions

AICAR activates AMP-activated protein kinase (AMPK), and promotes ligand-independent activation of the insulin receptor. It also promotes skeletal muscle autophagy via activation of FoxO3a, and controls smooth muscle cell hyperproliferation in vascular disease. AICAR induces osteogenic differentiation in mesenchymal stem cells. It inhibits proinflammatory response in glial cells. AICAR is cell permeable.

Application Procedures

AICAR can be first dissolved in DMSO or water (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI2438	EHNA Hydrochloride, PDE2 and ADA Inhibitor
TBI12069	Cytochalasin B
TBI2073	Forskolin, Adenylate cyclase activator
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI1126	Vinpocetine, PDE1 Inhibitor
TBI2657	Roflumilast, PDE4 Inhibitor
TBI1319	BML-288, PDE2 Inhibitor
TBI2584	Cilostamide, PDE3 Inhibitor
TBI1131	Cilostazol, PDE3A Inhibitor

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