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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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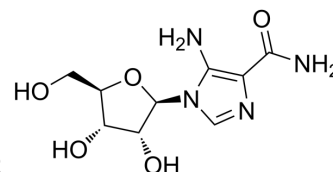
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AICAR (Standard)

Cat. No.:	HY-13417R
CAS No.:	2627-69-2
Molecular Formula:	C ₉ H ₁₄ N ₄ O ₅
Molecular Weight:	258.23
Target:	Mitophagy; Endogenous Metabolite; Autophagy; YAP; AMPK
Pathway:	Autophagy; Metabolic Enzyme/Protease; Stem Cell/Wnt; Epigenetics; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AICAR (Standard) is the analytical standard of AICAR. This product is intended for research and analytical applications. AICAR (Acadesine) is an adenosine analog and a AMPK activator. AICAR regulates the glucose and lipid metabolism, and inhibits proinflammatory cytokines and iNOS production. AICAR is also an autophagy, YAP and mitophagy inhibitor ^{[1][2]} .
IC ₅₀ & Target	AMPK ^[1]

REFERENCES

- [1]. Nakamaru K, et al. AICAR, an activator of AMP-activated protein kinase, down-regulates the IR expression in HepG2 cells. *Biochem Biophys Res Commun*. 2005 Mar 11;328(2):449-54
- [2]. Drake JC, et al. AICAR treatment for 14 days normalizes obesity-induced dysregulation of TORC1 signaling and translational capacity in fasted skeletal muscle. *Am J Physiol Regul Integr Comp Physiol*. 2010 Dec;299(6):R1546-54.
- [3]. Pold R, et al. Long-term AICAR administration and exercise prevents diabetes in ZDF rats. *Diabetes*. 2005 Apr;54(4):928-34.
- [4]. Giri S, et al. 5-aminoimidazole-4-carboxamide-1-beta-4-ribofuranoside inhibits proinflammatory response in glial cells: a possible role of AMP-activated protein kinase. *J Neurosci*. 2004 Jan 14;24(2):479-87.
- [5]. Ajaybabu V Pobbati, et al. A combat with the YAP/TAZ-TEAD oncoproteins for cancer therapy. *Theranostics*. 2020 Feb 18;10(8):3622-3635.

Caution: Product has not been fully validated for medical applications. For research use only.

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