



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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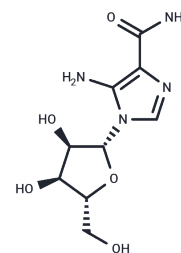
www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)

AICAR

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 2627-69-2 |
| Formula: | C ₉ H ₁₄ N ₄ O ₅ |
| Molecular Weight: | 258.23 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|---------------|---|
| Description | AICAR (Acadesine) is an AMPK activator that causes ZMP accumulation, thereby mimicking the stimulatory effect of AMP on both AMPK and AMPKK. It is commonly used in research related to diabetes, cardiovascular diseases, and tumors. |
| Targets(IC50) | Mitophagy, YAP, AMPK, Autophagy |
| Cell Research | Acadesine is added to K562 cell lines or primary cells (103 CD34+ cells/mL) growing in semisolid methyl cellulose medium. MethoCult H4100 or H4236 are used for cell lines and primary CD34+ cells respectively. Colonies are detected after 10 days of culture by adding 1 mg/mL of 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide (MTT) reagent and are scored by Image J quantification software. (Only for Reference) |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: 19.4 mg/mL (75 mM), DMSO: 80 mg/mL (309.8 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.8725 mL | 19.3626 mL | 38.7252 mL |
| 5 mM | 0.7745 mL | 3.8725 mL | 7.745 mL |
| 10 mM | 0.3873 mL | 1.9363 mL | 3.8725 mL |
| 50 mM | 0.0775 mL | 0.3873 mL | 0.7745 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Rao X S, Cong X X, Gao X K, et al. AMPK-mediated phosphorylation enhances the auto-inhibition of TBC1D17 to promote Rab5-dependent glucose uptake. Cell Death & Differentiation. 2021: 1-21.
Corton JM, et al. Eur J

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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