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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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2'-Deoxyadenosine-5'-monophosphate

Cat. No.: HY-W016009

CAS No.: 653-63-4

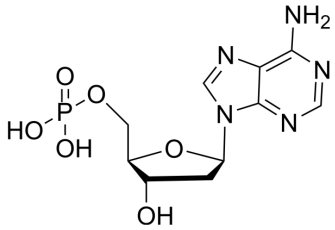
Molecular Formula: $C_{10}H_{14}N_5O_6P$

Molecular Weight: 331.22

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (754.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0191 mL	15.0957 mL	30.1914 mL
	5 mM	0.6038 mL	3.0191 mL	6.0383 mL
	10 mM	0.3019 mL	1.5096 mL	3.0191 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.28 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.28 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2′-Deoxyadenosine 5′-monophosphate, a nucleic acid AMP derivative, is a deoxyribonucleotide found in DNA. 2′-Deoxyadenosine 5′-monophosphate can be used to study adenosine-based interactions during DNA synthesis and DNA damage[1].

IC_{50} & Target		
	Human Endogenous Metabolite	Microbial Metabolite

In Vitro

2′-Deoxyadenosine 5′-monophosphate (dAMP) is incorporated into Caco-2 cells in a time-dependent manner. The uptake of 2′-Deoxyadenosine 5′-monophosphate is increased with a drop in pH, suggesting that 2′-Deoxyadenosine 5′-

monophosphate transport activity might be linked to the protons. 2′-Deoxyadenosine 5′-monophosphate uptake by Caco-2 cells is pH- and Na+-dependent[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Katsuya Narumi, et al. Mutual role of ecto-5'-nucleotidase/CD73 and concentrative nucleoside transporter 3 in the intestinal uptake of dAMP. PLoS One. 2019 Oct 21;14(10):e0223892.

[2]. V Duarte, et al. Insertion of dGMP and dAMP during in vitro DNA synthesis opposite an oxidized form of 7,8-dihydro-8-oxoguanine. Nucleic Acids Res. 1999 Jan 15;27(2):496-502.

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