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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

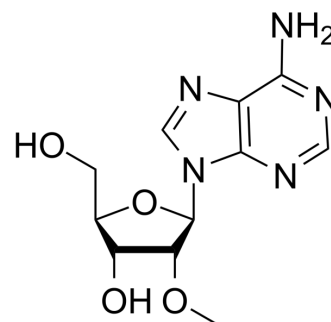
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2'-O-Methyladenosine

Cat. No.:	HY-W011552
CAS No.:	2140-79-6
Molecular Formula:	C ₁₁ H ₁₅ N ₅ O ₄
Molecular Weight:	281.27
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 : 66.67 mg/mL (237.03 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.5553 mL	17.7765 mL	35.5530 mL
		5 mM	0.7111 mL	3.5553 mL	7.1106 mL
		10 mM	0.3555 mL	1.7777 mL	3.5553 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: ≥ 3 mg/mL (10.67 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (10.67 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (10.67 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	2'-O-Methyladenosine, a methylated adenine residue is found in urine of normals as well as in urine of adenosine deaminase (ADA) deficient patients. 2'-O-Methyladenosine exhibits unique hypotensive activities ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vivo	2'-O-Methyladenosine (100, 200 mg/kg, ip, single dose) exhibits unique hypotensive activities in rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male spontaneously hypertensive rats (SHR; 16 weeks old) ^[2] .
Dosage:	100, 200 mg/kg.
Administration:	IP, single dose.
Result:	Exhibited a significant hypotensive effect in decreasing blood pressure by about 40-50%.

REFERENCES

- [1]. Hirschhorn R, et al. Increased excretion of modified adenine nucleosides by children with adenosine deaminase deficiency. *Pediatr Res.* 1982 May;16(5):362-9.
- [2]. Yamada T, et al. Naturally occurring 2'-O-methylpurine nucleosides with hypotensive properties. *Cell Mol Life Sci.* 1998 Feb;54(2):125-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA