



# SZABO SCANDIC

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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

### SZABO-SCANDIC HandelsgmbH

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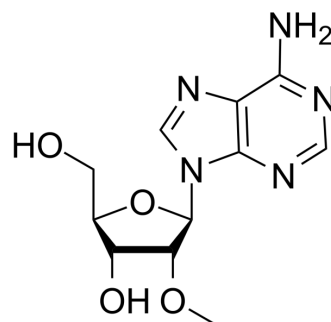
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## 2'-O-Methyladenosine

<b>Cat. No.:</b>	HY-W011552
<b>CAS No.:</b>	2140-79-6
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	281.27
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 66.67 mg/mL (237.03 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 3 mg/mL (10.67 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (10.67 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 3 mg/mL (10.67 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2'-O-Methyladenosine, a methylated adenosine 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 <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite
<b>In Vivo</b>	2'-O-Methyladenosine (100, 200 mg/kg, ip, single dose) exhibits unique hypotensive activities in rats <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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## REFERENCES

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[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.

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

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