



# 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

### SZABO-SCANDIC HandelsgmbH

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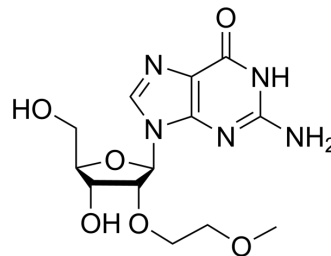
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## 2'-O-(2-Methoxyethyl)guanosine

<b>Cat. No.:</b>	HY-23789
<b>CAS No.:</b>	473278-54-5
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>19</sub> N <sub>5</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	341.32
<b>Target:</b>	Nucleoside Antimetabolite/Analog
<b>Pathway:</b>	Cell Cycle/DNA Damage
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (292.98 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.9298 mL	14.6490 mL	29.2980 mL
		5 mM	0.5860 mL	2.9298 mL	5.8596 mL
	10 mM	0.2930 mL	1.4649 mL	2.9298 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.09 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	2'-O-(2-Methoxyethyl)guanosine (2'-O-MOE-rG), a 2'-O-methoxyethyl-modified nucleoside, can be produced by enzymatic conversion (adenosine deaminase) from 2'-O-(2-methoxyethyl)-2,6-diaminopurine riboside. 2'-O-(2-Methoxyethyl)guanosine neither effectively phosphorylated by cytosolic nucleoside kinases, nor are they incorporated into cellular DNA or RNA <sup>[1][2]</sup> .
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### REFERENCES

[1]. McPherson AK, et, al. An Improved Process for the Manufacture of 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-O-(2-methoxyethyl)guanosine. Org. Process Res. Dev. 2020, 24, 11, 2583-2590.

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

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