



# 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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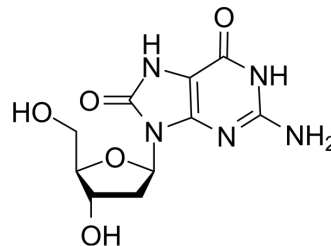
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## 8-Hydroxy-2'-deoxyguanosine

Cat. No.:	HY-W011540		
CAS No.:	88847-89-6		
Molecular Formula:	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub>		
Molecular Weight:	283.24		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 155 mg/mL (547.24 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.5306 mL	17.6529 mL	35.3057 mL
		5 mM	0.7061 mL	3.5306 mL	7.0612 mL
10 mM		0.3531 mL	1.7653 mL	3.5306 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<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: ≥ 2.58 mg/mL (9.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.58 mg/mL (9.11 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.58 mg/mL (9.11 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	8-Hydroxy-2'-deoxyguanosine is a critical biomarker of oxidative stress and carcinogenesis.
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vitro	8-Hydroxy-2'-deoxyguanosine (8-OHdG) is a good biomarker for risk assessment of various cancers and degenerative diseases. The biomarker 8-Hydroxy-2'-deoxyguanosine (8-OHdG) or 8-oxodG has been a pivotal marker for measuring the effect of endogenous oxidative damage to DNA and as a factor of initiation and promotion of carcinogenesis. The biomarker

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has been used to estimate the DNA damage in humans after exposure to cancer-causing agents, such as tobacco smoke, asbestos fibers, heavy metals, and polycyclic aromatic hydrocarbons<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 Sep 21;8(1):371.
- Nat Cell Biol. 2021 Oct 6.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Valavanidis A, et al. 8-hydroxy-2'-deoxyguanosine (8-OHdG): A critical biomarker of oxidative stress and carcinogenesis. J Environ Sci Health C Environ Carcinog Ecotoxicol Rev. 2009 Apr;27(2):120-39.

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

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