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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

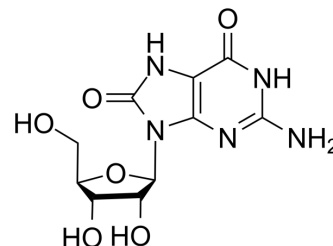
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8-Hydroxyguanosine

Cat. No.:	HY-113262
CAS No.:	3868-31-3
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₆
Molecular Weight:	299.24
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (417.72 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.3418 mL	16.7090 mL	33.4180 mL
		5 mM		0.6684 mL	3.3418 mL	6.6836 mL
		10 mM		0.3342 mL	1.6709 mL	3.3418 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 (6.95 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.08 mg/mL (6.95 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	8-Hydroxyguanosine, an oxidized nucleoside, is a marker of RNA oxidative damage and oxidative stress. 8-Hydroxyguanosine stimulates proliferation and differentiation of B cells ^{[1][2][3]} .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

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- [1]. Ahmad A, et al. 8-Hydroxyguanosine and 8-methoxyguanosine possess immunostimulating activity for B lymphocytes. Cell Immunol. 1985 Aug;94(1):276-80.
- [2]. Fiala ES, et al. Oxidative DNA and RNA damage in the livers of Sprague-Dawley rats treated with the hepatocarcinogen 2-nitropropane. Cancer Res. 1989 Oct 15;49(20):5518-22.
- [3]. Abe T, et al. Remarkable increase in the concentration of 8-hydroxyguanosine in cerebrospinal fluid from patients with Alzheimer's disease. J Neurosci Res. 2002 Nov 1;70(3):447-50.
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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