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Zuschläge

- Mindermengenzuschlag
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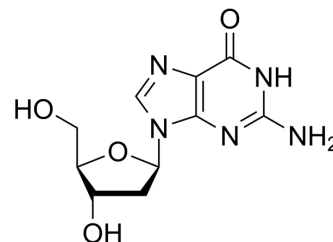
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2'-Deoxyguanosine

Cat. No.:	HY-17563
CAS No.:	961-07-9
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₄
Molecular Weight:	267.24
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 : 100 mg/mL (374.20 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.7420 mL	18.7098 mL	37.4195 mL
		5 mM		0.7484 mL	3.7420 mL	7.4839 mL
		10 mM		0.3742 mL	1.8710 mL	3.7420 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: ≥ 2.5 mg/mL (9.35 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.35 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	2'-Deoxyguanosine (Deoxyguanosine) is a purine nucleoside with a variety of biological activities. 2'-Deoxyguanosine can induce DNA division in mouse thymus cells. 2'-Deoxyguanosine is a potent cell division inhibitor in plant cells ^{[1][2][3]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	2'-Deoxyguanosine inhibits the clonal growth of HL-60 and K562 leukemia cells with IC ₅₀ values of 50 and 80 μM, respectively ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Rep. 2020 Mar 31;30(13):4370-4385.e7.
- Cell Rep. 2020 May 12;31(6):107640.
- Talanta. 2023 Sep 6, 125171.
- Research Square Preprint. 2021 Aug.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Ross DD, et al. Effects of deoxynucleosides on cultured human leukemia cell growth and deoxynucleotide pools. Cancer Res. 1981 Nov;41(11 Pt 1):4493-8.
- [2]. Kizaki H, et al. Adenosine, deoxyadenosine, and deoxyguanosine induce DNA cleavage in mouse thymocytes. J Immunol. 1988 Sep 1;141(5):1652-7.
- [3]. Brulfert A, et al. Deoxyguanosine, a potent cytokinesis inhibitor in plant cells. Experientia. 1974 Sep 15;30(9):1010-1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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