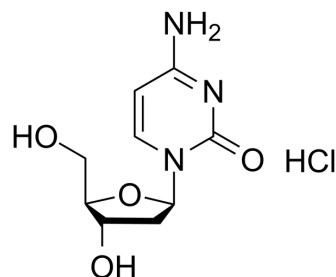


2'-Deoxycytidine hydrochloride

Cat. No.:	HY-17564
CAS No.:	3992-42-5
Molecular Formula:	C ₉ H ₁₄ ClN ₃ O ₄
Molecular Weight:	263.68
Target:	Endogenous Metabolite; Nucleoside Antimetabolite/Analog
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 41 mg/mL (155.49 mM)
 DMSO : 25 mg/mL (94.81 mM; ultrasonic and warming and heat to 80°C)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7925 mL	18.9624 mL	37.9248 mL
	5 mM	0.7585 mL	3.7925 mL	7.5850 mL
	10 mM	0.3792 mL	1.8962 mL	3.7925 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (189.62 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (9.48 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (9.48 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

2'-Deoxycytidine hydrochloride is composed of the purine nucleoside guanine linked by its N9 nitrogen to the C1 carbon of deoxyribose.

IC₅₀ & Target

Microbial Metabolite

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Cell Rep. 2020 May 12;31(6):107640.
- Int J Biol Macromol. 2023 May 26;125063.
- JCI Insight. 2022 Oct 13;e159419.
- Clin Epigenetics. 2020 Feb 11;12(1):25.
- Research Square Preprint. 2021 May.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Deoxyguanosine, From Wikipedia

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