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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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5'-Ethynyl-2'-deoxycytidine

Chemical Properties

CAS No. :	69075-47-4
Formula:	C ₁₁ H ₁₃ N ₃ O ₄
Molecular Weight:	251.242
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	5'-Ethynyl-2'-deoxycytidine (EdC) functions as a nucleoside analog effectively inhibiting the replication of herpes simplex virus-1 (HSV-1) KOS strain with an ID ₅₀ of 0.2 µg/mL. Additionally, it decreases virus-induced cytopathogenic effects in PRK cells for HSV-1, HSV-2, and vaccinia virus strains, demonstrating MIC values between 0.2 to 5 µg/mL. EdC acts as a thymidylate synthetase inhibitor, selectively impacting the DNA incorporation rates of [1',2'- ³ H]deoxyuridine compared to [CH ₃ - ³ H]deoxythymidine in PRK cells with ID ₅₀ s of 3 and 120 µg/mL, respectively. It further inhibits thymidine synthetase and curtails L1210 cell proliferation, a process reversible by deoxythymidine (ID ₅₀ s are 4.4 and 1,000 µg/mL, respectively). Also, EdC is utilized in monitoring DNA synthesis and cellular replication through click chemistry conjugation, linking its ethynyl group with the azido group of various fluorochromes.
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9803 mL	19.9013 mL	39.8026 mL
5 mM	0.7961 mL	3.9803 mL	7.9605 mL
10 mM	0.398 mL	1.9901 mL	3.9803 mL
50 mM	0.0796 mL	0.398 mL	0.7961 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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