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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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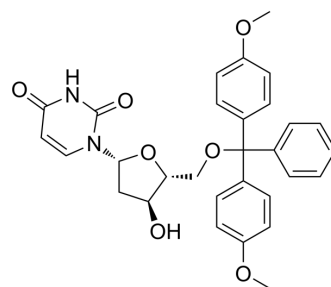
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5'-O-(4,4'-Dimethoxytrityl)-2'-deoxyuridine

Cat. No.:	HY-W097792
CAS No.:	23669-79-6
Molecular Formula:	C ₃₀ H ₃₀ N ₂ O ₇
Molecular Weight:	530.57
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (188.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.8848 mL	9.4238 mL	18.8477 mL
		5 mM	0.3770 mL	1.8848 mL	3.7695 mL
	10 mM	0.1885 mL	0.9424 mL	1.8848 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 (4.71 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	5'-O-(4,4'-Dimethoxytrityl)-2'-deoxyuridine (5'-O-DMT-dU) is a competitive inhibitor of E. coli dUTP nucleotidohydrolase (dUTPase), with the K _i higher than 1000 μM. 5'-O-(4,4'-Dimethoxytrityl)-2'-deoxyuridine can be used in machine-assisted DNA synthesis by synthesizing nucleosidic phosphoramidite blocks ^{[1][2]} .
IC ₅₀ & Target	Ki: >1000 μM (E. coli dUTPase) ^[1]

REFERENCES

[1]. Hidalgo-Zarco F, et, al. Kinetic properties and inhibition of the dimeric dUTPase-dUDPase from Leishmania major. Protein Sci. 2001 Jul;10(7):1426-33.

[2]. Hovinen J, et, al. Versatile strategy for oligonucleotide derivatization. Introduction of lanthanide(III) chelates to oligonucleotides. Org Lett. 2001 Aug 9;3(16):2473-6.

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

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