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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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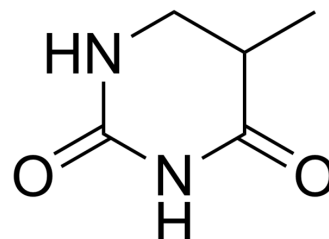
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5,6-Dihydro-5-methyluracil

Cat. No.:	HY-N6787
CAS No.:	696-04-8
Molecular Formula:	C ₅ H ₈ N ₂ O ₂
Molecular Weight:	128.13
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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	DMSO : 62.5 mg/mL (487.79 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	7.8046 mL	39.0229 mL	78.0457 mL
		5 mM	1.5609 mL	7.8046 mL	15.6091 mL
		10 mM	0.7805 mL	3.9023 mL	7.8046 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 (16.23 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (16.23 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (16.23 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	5,6-Dihydro-5-methyluracil (Dihydrothymine), an intermediate breakdown product of thymine, comes from animal or plants. 5,6-Dihydro-5-methyluracil (Dihydrothymine) can be toxic when present at abnormally high levels ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

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- ACS Omega. 2024 Feb 28;9(10):11870-11882.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Yamane T, et al. Dihydrothymine from UV-irradiated DNA. Proc Natl Acad Sci U S A. 1967 Aug;58(2):439-42.

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

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