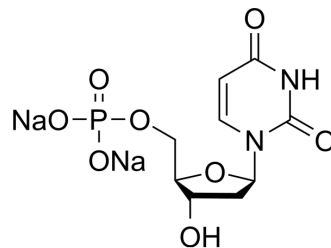


2'-Deoxyuridine 5'-monophosphate disodium

Cat. No.:	HY-W011142
CAS No.:	42155-08-8
Molecular Formula:	C ₉ H ₁₁ N ₂ Na ₂ O ₈ P
Molecular Weight:	352.15
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (709.92 mM; Need ultrasonic)				
	DMSO : < 1 mg/mL (ultrasonic;warming;heat to 80°C) (insoluble or slightly soluble)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8397 mL	14.1985 mL	28.3970 mL
	5 mM	0.5679 mL	2.8397 mL	5.6794 mL	
	10 mM	0.2840 mL	1.4198 mL	2.8397 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (283.97 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	2'-Deoxyuridine 5'-monophosphate disodium is reductively methylated to dTMP (2'-deoxythymidine 5'-monophosphate) by bisubstrate enzyme thymidylate synthase (TS). dTMP is a nucleotide required for DNA synthesis ^[1] .
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REFERENCES

[1]. Zachary Newby, et al. The role of protein dynamics in thymidylate synthase catalysis: variants of conserved 2'-deoxyuridine 5'-monophosphate (dUMP)-binding Tyr-261. *Biochemistry*. 2006 Jun 20;45(24):7415-28.

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

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