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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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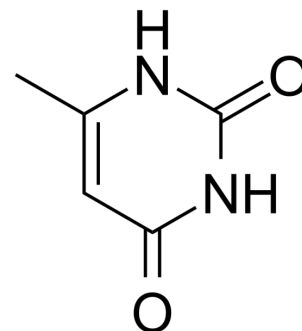
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6-Methyluracil

Cat. No.:	HY-Y1125		
CAS No.:	626-48-2		
Molecular Formula:	C ₅ H ₆ N ₂ O ₂		
Molecular Weight:	126.11		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (396.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	7.9296 mL	39.6479 mL	79.2959 mL
		5 mM	1.5859 mL	7.9296 mL	15.8592 mL
10 mM		0.7930 mL	3.9648 mL	7.9296 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.55 mg/mL (36.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (19.82 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (19.82 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	6-Methyluracil (Pseudothymine), a metabolite of Uracil, can be used as an indicator of acetoacetyl-CoA (AACoA) accumulation. 6-Methyluracil exhibits antiradiation effect <i>in vivo</i> ^{[1][2]} .
In Vivo	6-Methyluracil (50 mg/kg; a single i.p.) produces a pronounced radioprotective effect in BALB and SHK mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Cromby CH, et, al. 6-Methyluracil excretion in 2-methylacetoacetyl-CoA thiolase deficiency and in two children with an unexplained recurrent ketoacidaemia. J Inherit Metab Dis. 1994;17(1):81-4.
- [2]. Taran IP, et, al. [The antiradiation action of 6-methyluracil]. Radiobiologija. Mar-Apr 1993;33(2):285-90.
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Caution: Product has not been fully validated for medical applications. For research use only.

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