## Dihydrouracil

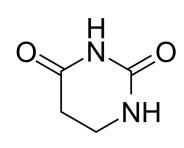
Cat. No.:	HY-W01292	6			
CAS No.:	504-07-4				
Molecular Formula:	$C_4H_6N_2O_2$				
Molecular Weight:	114.1				
Target:	Endogenous Metabolite				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

### SOLVENT & SOLUBILITY

In Vitro	0.	DMSO : 14.29 mg/mL (125.24 mM; Need ultrasonic) H <sub>2</sub> O : 10 mg/mL (87.64 mM; ultrasonic and warming and heat to 60°C)						
Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg				
	1 mM	8.7642 mL	43.8212 mL	87.6424 mL				
		5 mM	1.7528 mL	8.7642 mL	17.5285 mL			
		10 mM	0.8764 mL	4.3821 mL	8.7642 mL			
	Please refer to the sol	Please refer to the solubility information to select the appropriate solvent.						
In Vivo		one by one: 10% DMSO >> 40% PEC ng/mL (12.53 mM); Clear solution	G300 >> 5% Tween-80	0 >> 45% saline				
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.43 mg/mL (12.53 mM); Clear solution						
		one by one: 10% DMSO >> 90% cor ng/mL (12.53 mM); Clear solution	n oil					

BIOLOGICAL ACTIVITY				
Description	Dihydrouracil (5,6-Dihydrouracil), a metabolite of Uracil, can be used as a marker for identification of dihydropyrimidine dehydrogenase (DPD)-deficient <sup>[1][2]</sup> .			
IC <sub>50</sub> & Target	Human Endogenous Metabolite			

# RedChemExpress



Product Data Sheet

### REFERENCES

[1]. Henricks LM, et, al. Food-effect study on uracil and dihydrouracil plasma levels as marker for dihydropyrimidine dehydrogenase activity in human volunteers. Br J Clin Pharmacol. 2018 Dec;84(12):2761-2769.

[2]. Jacobs BAW, et, al. The impact of liver resection on the dihydrouracil:uracil plasma ratio in patients with colorectal liver metastases. Eur J Clin Pharmacol. 2018 Jun;74(6):737-744.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA