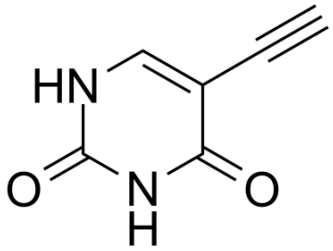
Eniluracil

Cat. No.:	HY-10533		
CAS No.:	59989-18-3		
Molecular Formula:	$C_6H_4N_2O_2$		
Molecular Weight:	136.11		
Target:	Others		
Pathway:	Others		
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 : 62.5 mg/mL (**459.19 mM;** Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	7.3470 mL	36.7350 mL	73.4700 mL
	5 mM	1.4694 mL	7.3470 mL	14.6940 mL
	10 mM	0.7347 mL	3.6735 mL	7.3470 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 (15.28 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
   Solubility: ≥ 2.08 mg/mL (15.28 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 2.08 mg/mL (15.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eniluracil (5-Ethynyluracil), a uracil analogue and a mechanism-based irreversible inhibitor of **dihydropyrimidine dehydrogenase (DPD)**, increases the oral bioavailability of 5-fluorouracil (5-FU) to 100%, facilitating uniform absorption and predictable toxicity[1].

IC_{50} & Target

Dihydropyrimidine dehydrogenase[1]

REFERENCES

[1]. Schilsky RL, et al. Eniluracil: an irreversible inhibitor of dihydropyrimidine dehydrogenase. Expert Opin Investig Drugs. 2000 Jul;9(7):1635-49.

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