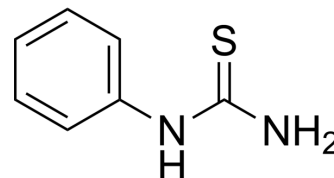


Phenylthiourea

Cat. No.:	HY-Y0351		
CAS No.:	103-85-5		
Molecular Formula:	C ₇ H ₈ N ₂ S		
Molecular Weight:	152.22		
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 : 100 mg/mL (656.94 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	6.5694 mL	32.8472 mL	65.6944 mL
		5 mM	1.3139 mL	6.5694 mL	13.1389 mL
	10 mM	0.6569 mL	3.2847 mL	6.5694 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: ≥ 2.5 mg/mL (16.42 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Phenylthiourea (Phenylthiocarbamide) is an inhibitor of phenoloxidase. Phenylthiourea inhibits enzymatic oxidation of DOPA by phenoloxidase (K _i : 0.217 μM) ^[1] .
IC ₅₀ & Target	phenoloxidase ^[1]

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

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