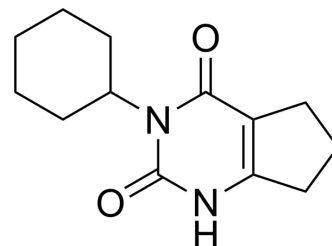


## Lenacil

<b>Cat. No.:</b>	HY-116706
<b>CAS No.:</b>	2164-08-1
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	234.29
<b>Target:</b>	Herbicide
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 8.33 mg/mL (35.55 mM); ultrasonic and warming and heat to 60°C				
		<b>Solvent</b>	<b>Mass</b>		
	<b>Preparing Stock Solutions</b>	<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	4.2682 mL	21.3411 mL	42.6821 mL
		<b>5 mM</b>	0.8536 mL	4.2682 mL	8.5364 mL
<b>10 mM</b>		0.4268 mL	2.1341 mL	4.2682 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (3.54 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (3.54 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Lenacil is a selective uracil substituted herbicide used for control of both annual grasses, broad leafed weeds and some perennial weeds in sugarcane, apples, alfalfa, peaches, peacans, peppermints ( <i>Mentha piperita</i> ) and sugar beets. Lenacil can inhibit photosynthesis <sup>[1][2]</sup> .
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### REFERENCES

- [1]. T Thriveni, et al. Behaviour and Quantification Studies of Terbacil and Lenacil in Environmental Samples Using Cyclic and Adsorptive Stripping Voltammetry at Hanging Mercury Drop Electrode. Environ Monit Assess. 2007 May;128(1-3):359-68.
- [2]. E Mechant, et al. Metamitron-resistant *Chenopodium Album* From Sugar Beet: Cross-Resistance Profile. Commun Agric Appl Biol Sci. 2006;71(3 Pt A):725-32.

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

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