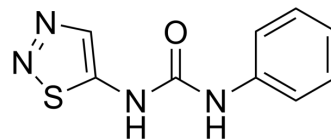


## Thidiazuron

<b>Cat. No.:</b>	HY-B0872		
<b>CAS No.:</b>	51707-55-2		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>8</sub> N <sub>4</sub> OS		
<b>Molecular Weight:</b>	220.25		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (454.03 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.5403 mL	22.7015 mL	45.4030 mL
		5 mM	0.9081 mL	4.5403 mL	9.0806 mL
10 mM		0.4540 mL	2.2701 mL	4.5403 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (11.35 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Thidiazuron is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
<b>In Vitro</b>	Thidiazuron is a plant growth regulator used as a supplement to media such as Murashige and Skoog media for micropropagation. Thidiazuron promotes plant organogenesis (bud regeneration) and plant regeneration. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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