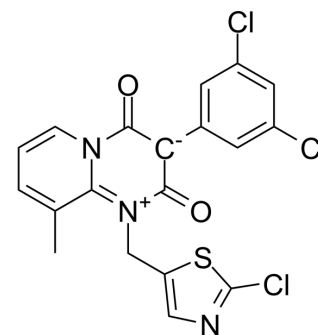


## Dicloromezotiaz

<b>Cat. No.:</b>	HY-145298		
<b>CAS No.:</b>	1263629-39-5		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>12</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	452.74		
<b>Target:</b>	nAChR		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<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 (220.88 mM; ultrasonic and warming and heat to 80°C)				
		<b>Solvent</b>	<b>Mass</b>		
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
	<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.2088 mL	11.0439 mL	22.0877 mL
		<b>5 mM</b>	0.4418 mL	2.2088 mL	4.4175 mL
		<b>10 mM</b>	0.2209 mL	1.1044 mL	2.2088 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% corn oil Solubility: 2.5 mg/mL (5.52 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dicloromezotiaz is a potent insecticide acting on nicotinic acetylcholine receptors (nAChRs). Dicloromezotiaz can be used to control a broad range of lepidoptera <sup>[1]</sup> .
<b>In Vitro</b>	Dicloromezotiaz is a antagonist of insect nAChR channel <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Montgomery M, et al. Structural Biology-Guided Design, Synthesis, and Biological Evaluation of Novel Insect Nicotinic Acetylcholine Receptor Orthosteric Modulators [published correction appears in J Med Chem. 2022 Mar 10;65(5):4401-4402]. J Med Chem. 2022

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

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