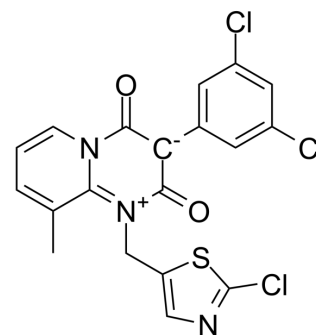


Dicloromezotiaz

Cat. No.:	HY-145298
CAS No.:	1263629-39-5
Molecular Formula:	C ₁₉ H ₁₂ Cl ₃ N ₃ O ₂ S
Molecular Weight:	452.74
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (220.88 mM; ultrasonic and warming and heat to 80°C)				
		Solvent	Mass		
	Preparing Stock Solutions	Concentration	1 mg	5 mg	10 mg
		1 mM	2.2088 mL	11.0439 mL	22.0877 mL
		5 mM	0.4418 mL	2.2088 mL	4.4175 mL
10 mM		0.2209 mL	1.1044 mL	2.2088 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	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

Description	Dicloromezotiaz is a potent insecticide acting on nicotinic acetylcholine receptors (nAChRs). Dicloromezotiaz can be used to control a broad range of lepidoptera ^[1] .
In Vitro	Dicloromezotiaz is a antagonist of insect nAChR channel ^[1] . 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

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

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