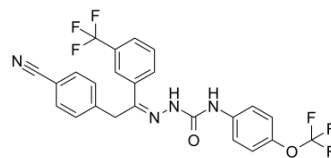


Metaflumizone

Cat. No.:	HY-116448		
CAS No.:	139968-49-3		
Molecular Formula:	C ₂₄ H ₁₆ F ₆ N ₄ O ₂		
Molecular Weight:	506.4		
Target:	Sodium Channel; Parasite		
Pathway:	Membrane Transporter/Ion Channel; Anti-infection		
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 : 300 mg/mL (592.42 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.9747 mL	9.8736 mL	19.7472 mL
	5 mM	0.3949 mL	1.9747 mL	3.9494 mL
	10 mM	0.1975 mL	0.9874 mL	1.9747 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 (4.94 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Metaflumizone is a semicarbazone insecticide, acts as a potent sodium channel blocker ^[1] .
IC₅₀ & Target	Sodium channel ^[1]
In Vitro	Metaflumizone (10 μM) completely inhibits the Para/TipE sodium currents in <i>Xenopus oocytes</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Salgado VL, et al. Metaflumizone is a novel sodium channel blocker insecticide. *Vet Parasitol.* 2007 Dec 15;150(3):182-9. Epub 2007 Oct 23.

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

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