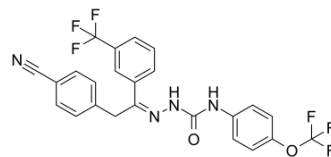


Metaflumizone

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		
Pathway:	Membrane Transporter/Ion Channel		
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)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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] .
IC ₅₀ & Target	Sodium channel ^[1]
In Vitro	Metaflumizone (10 μM) completely inhibits the Para/TipE sodium currents in <i>Xenopus oocytes</i> ^[1] .

REFERENCES

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

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