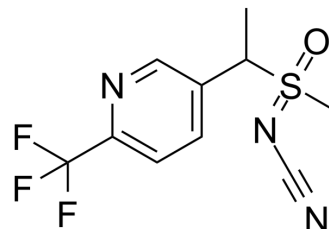


Sulfoxaflor

Cat. No.:	HY-118504		
CAS No.:	946578-00-3		
Molecular Formula:	C ₁₀ H ₁₀ F ₃ N ₃ OS		
Molecular Weight:	277.27		
Target:	nAChR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : 50 mg/mL (180.33 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.6066 mL	18.0330 mL	36.0659 mL
	5 mM		0.7213 mL	3.6066 mL	7.2132 mL
	10 mM		0.3607 mL	1.8033 mL	3.6066 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfoxaflor is a sulfoximine insecticide and is an agonist of nAChR1 and nAChR2 subtypes. Sulfoxaflor is used for the control of sap-feeding insects such as *Myzus persicae*, *Aphis gossypii*, *Bemisia tabaci* and *Nilaparvata lugens*^[1].

REFERENCES

[1]. Jean-Noël Houchat, et al. Mode of Action of Sulfoxaflor on α -bungarotoxin-insensitive nAChR1 and nAChR2 Subtypes: Inhibitory Effect of Imidacloprid. *Neurotoxicology*. 2019 Sep;74:132-138.

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

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