Indoxacarb

Cat. No.: HY-B0834

CAS No.: 144171-61-9

Molecular Formula: $C_{22}H_{17}ClF_3N_3O_7$

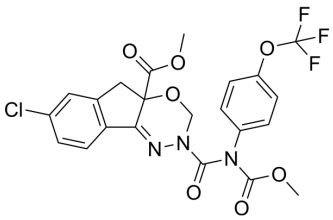
Molecular Weight: 527.83

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 : 12.5 mg/mL (23.68 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8945 mL	9.4727 mL	18.9455 mL
	5 mM	0.3789 mL	1.8945 mL	3.7891 mL
	10 mM	0.1895 mL	0.9473 mL	1.8945 mL

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

BIOLOGICAL ACTIVITY

Description

Indoxacarb ((±)-Indoxacarb; DPX-JW062) is a broad-spectrum oxadiazine insecticide with high insecticidal activity and low mammalian toxicity. Indoxacarb blocks insect sodium channels (Sodium Channel) in nerve preparations and isolated neurons [1].

In Vitro

In insects, Indoxacarb is metabolically converted to N-decarbomethoxyllated JW062 (DCJW), which is more active than its parental compound. Indoxacarb is a promising alternative to pyrethroid insecticides, especially for the control of lepidopterous pests of agricultural importance[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Weizhong Song, et al. Molecular basis of differential sensitivity of insect sodium channels to DCJW, a bioactive metabolite of the oxadiazine insecticide indoxacarb. Neurotoxicology. 2006 Mar;27(2):237-44.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA