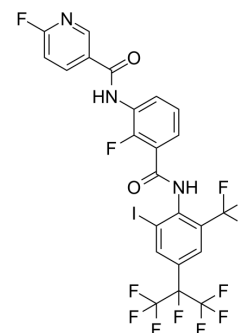


Modoflaner

Cat. No.:	HY-137445
CAS No.:	1331922-53-2
Molecular Formula:	C ₂₃ H ₁₀ F ₁₂ IN ₃ O ₂
Molecular Weight:	715.23
Target:	Parasite
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (139.82 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3982 mL	6.9908 mL	13.9815 mL
	5 mM	0.2796 mL	1.3982 mL	2.7963 mL
	10 mM	0.1398 mL	0.6991 mL	1.3982 mL

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

BIOLOGICAL ACTIVITY

Description

Modoflaner is an isophenylamide insecticide. Modoflaner may act through allosteric regulation of gamma-aminobutyric acid-gated chloride channels^{[1][2]}.

In Vitro

Modoflaner (100 mg/mL, 6 days) can kill more than 70% of the moth, xylophone and gray planthopper^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Modoflaner (0.032 µg/ piece, intraperitoneal injection, 7 days) can prevent female adult ticks from laying eggs or eggs from hatching^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Modoflaner.

[2]. International Nonproprietary Names for Pharmaceutical Substances (INN). WHO Drug Information, Vol. 34, No. 2, 2020.

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

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