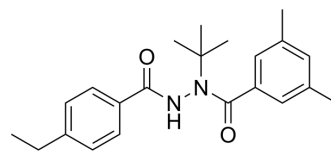


Tebufenozide

Cat. No.:	HY-B2054		
CAS No.:	112410-23-8		
Molecular Formula:	C ₂₂ H ₂₈ N ₂ O ₂		
Molecular Weight:	352.47		
Target:	Apoptosis		
Pathway:	Apoptosis		
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 : 125 mg/mL (354.64 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8371 mL	14.1856 mL	28.3712 mL
		5 mM	0.5674 mL	2.8371 mL	5.6742 mL
10 mM		0.2837 mL	1.4186 mL	2.8371 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: ≥ 2.08 mg/mL (5.90 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tebufenozide is a nonsteroidal ecdysone agonist used to control pest. Tebufenozide has cytotoxic and induces apoptosis in HeLa and insect Tn5B1-4 cells ^{[1][2]} .
IC₅₀ & Target	Apoptosis ^[2]

REFERENCES

[1]. Muhammad Fiaz, et al. Toxicological and Morphological Effects of Tebufenozide on Anticarsia Gemmatalis (Lepidoptera: Noctuidae) Larvae. Chemosphere. 2018 Dec;212:337-345.

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

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