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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

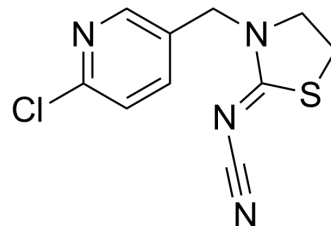
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Thiacloprid

Cat. No.:	HY-B1953		
CAS No.:	111988-49-9		
Molecular Formula:	C ₁₀ H ₉ ClN ₄ S		
Molecular Weight:	252.72		
Target:	Parasite; DNA Stain		
Pathway:	Anti-infection; Cell Cycle/DNA Damage		
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 (197.85 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9569 mL	19.7847 mL	39.5695 mL
		5 mM	0.7914 mL	3.9569 mL	7.9139 mL
10 mM		0.3957 mL	1.9785 mL	3.9569 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 (9.89 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Thiacloprid, a chloronicotinyl insecticide, is targeted chiefly to control aphid pest species in orchards and vegetables ^[1] . Thiacloprid destabilizes DNA. Thiacloprid changes the structure and stability of DNA through binding into the minor groove by hydrophobic or hydrogen interactions ^[2] .
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REFERENCES

- [1]. Schuld, M., et al. Effects of Thiacloprid, a New Chloronicotinyl Insecticide, On the Egg Parasitoid *Trichogramma cacaoeciae*. *Ecotoxicology* 9, 197–205 (2000).
- [2]. Verebová V, Želonková K, Holečková B, Staničová J. The effect of neonicotinoid insecticide thiacloprid on the structure and stability of DNA. *Physiol Res.* 2019;68(Suppl 4):S459-S466.

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