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Produktinformation



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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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) 

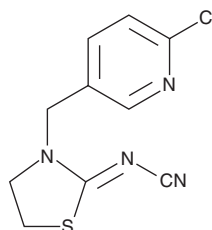
PRODUCT INFORMATION



Thiacloprid

Item No. 25824

CAS Registry No.: 111988-49-9
Formal Name: [N(Z)]-N-[3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-cyanamide
Synonym: BAY YRC 2894
MF: C₁₀H₉ClN₄S
FW: 252.7
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Thiacloprid is supplied as a solid. A stock solution may be made by dissolving the thiacloprid in the solvent of choice, which should be purged with an inert gas. Thiacloprid is slightly soluble in chloroform and methanol.

Description

Thiacloprid is a neonicotinoid insecticide that acts as a selective agonist at insect nicotinic acetylcholine receptors (nAChRs) with IC₅₀ values of 2.7 and 860 nM for *Drosophila* nAChRs and M10 mouse fibroblast cells expressing α4β2 subunit-containing nAChRs, respectively.¹ It is active against aphids, whiteflies, various species of beetle, and *Lepidoptera* species when used at concentrations ranging from 48 to 180 g AI/hectare.² It has anti-estrogenic activity in a yeast estrogen screen and is toxic to adult female houseflies and mice (LD₅₀ = 0.03 and 28 mg/kg, respectively).^{1,3} Formulations containing thiacloprid have been used in the control of insects in agriculture.

References

1. Tomizawa, M. and Casida, J.E. Selective toxicity of neonicotinoids attributable to specificity of insect and mammalian nicotinic receptors. *Annu. Rev. Entomol.* **48**, 339-364 (2003).
2. Elbert, A., Erdelen, C., Kuhnhold, J., et al. Thiacloprid, a novel neonicotinoid insecticide for foliar application. *Proc. Brighton Crop. Prot. Conf. - Pests and Diseases* **1**, 21-26 (2000).
3. Westlund, P. and Yargeau, V. Investigation of the presence and endocrine activities of pesticides found in wastewater effluent using yeast-based bioassays. *Sci. Total Environ.* **607-608**, 744-751 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM