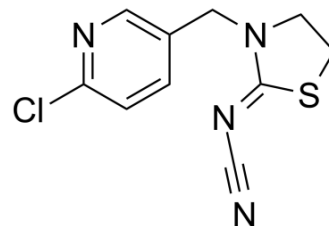


## Thiacloprid

Cat. No.:	HY-B1953
CAS No.:	111988-49-9
Molecular Formula:	C <sub>10</sub> H <sub>9</sub> ClN <sub>4</sub> S
Molecular Weight:	252.72
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

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

### 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.**

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