



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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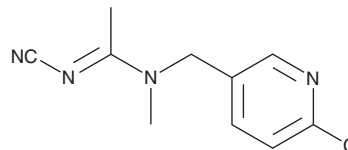
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Acetamiprid Item No. 24129

CAS Registry No.: 135410-20-7  
Formal Name: (1E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methyl-ethanimidamide  
MF: C<sub>10</sub>H<sub>11</sub>ClN<sub>4</sub>  
FW: 222.7  
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

Acetamiprid is supplied as a solid. A stock solution may be made by dissolving the acetamiprid in the solvent of choice. Acetamiprid is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas.

### Description

Acetamiprid is a neonicotinoid insecticide that acts as an agonist of insect nicotinic acetylcholine receptors (nAChRs). It activates nAChRs containing *N. lugens*  $\alpha$ 1 and rat  $\beta$ 2 subunits with an EC<sub>50</sub> value of 67  $\mu$ M in *X. laevis* oocytes.<sup>1</sup> Acetamiprid administered to pregnant mice at a dose of 1 mg/kg leads to sexual and aggressive behaviors in adult male offspring while doses of 1 and 10 mg/kg decrease anxiety-like behavior of adult male offspring in the light-dark transition test.<sup>2</sup> Formulations containing acetamiprid have been used to control sucking insects on crops and pets.

### References

1. Liu, Z., Williamson, M.S., Lansdell, S.J., *et al.* A nicotinic acetylcholine receptor mutation (Y151S) causes reduced agonist potency to a range of neonicotinoid insecticides. *J. Neurochem.* **99**(4), 1273-1281 (2006).
2. Sano, K., Isobe, T., Yang, J., *et al.* *In utero* and lactational exposure to acetamiprid induces abnormalities in socio-sexual and anxiety-related behaviors of male mice. *Front. Neurosci.* **10**:228 (2016).

**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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