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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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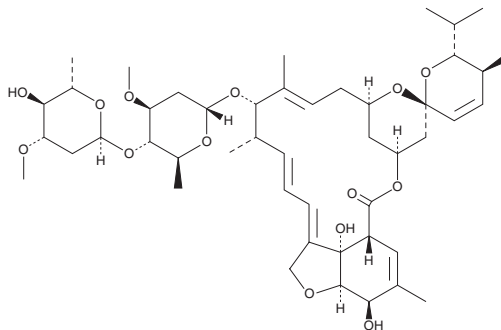
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PRODUCT INFORMATION



Avermectin B_{1b} Item No. 17453

CAS Registry No.: 65195-56-4
Formal Name: 5-O-demethyl-25-de(1-methylpropyl)-
25-(1-methylethyl)-avermectin A_{1a}
Synonyms: Abamectin B_{1b}, Antibiotic C 076B_{1b}
MF: C₄₇H₇₀O₁₄
FW: 859.1
Purity: ≥85%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Bacterium/*Streptomyces avermitilis*



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

Laboratory Procedures

Avermectin B_{1b} is supplied as a solid. A stock solution may be made by dissolving the avermectin B_{1b} in the solvent of choice. Avermectin B_{1b} is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

Avermectins are insecticides and anthelmintics first isolated from broths fermented by *S. avermitilis*.¹ They potentiate glutamate- and GABA-gated chloride channel opening in nematodes.^{2,3} Avermectin B_{1b} is a minor component of avermectin broth.² Avermectins, including avermectin B_{1b}, are used broadly against nematodes, ticks, flies, and ants.²

References

1. Egerton, J.R., Ostlind, D.A., Blair, L.S., *et al.* Avermectins, new family of potent anthelmintic agents: Efficacy of the B_{1a} component. *Antimicrob. Agents Chemother.* **15(3)**, 372-378 (1979).
2. Duke, S.O., Cantrell, C.L., Meepagala, K.M., *et al.* Natural toxins for use in pest management. *Toxins (Basel)* **2(8)**, 1943-1962 (2010).
3. Arena, J.P., Liu, K.K., Pares, P.S., *et al.* The mechanism of action of avermectins in *Caenorhabditis elegans*: Correlation between activation of glutamate-sensitive chloride current, membrane binding, and biological activity. *J. Parasitol.* **81**, 286-294 (1995).

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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