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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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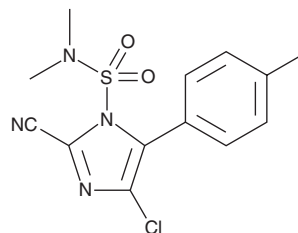
PRODUCT INFORMATION



Cyazofamid

Item No. 24044

CAS Registry No.: 120116-88-3
Formal Name: 4-chloro-2-cyano-N,N-dimethyl-5-(4-methylphenyl)-1H-imidazole-1-sulfonamide
Synonym: IKF 916
MF: C₁₃H₁₃ClN₄O₂S
FW: 324.8
Purity: ≥90%
UV/Vis.: λ_{max}: 281 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

Cyazofamid is supplied as a solid. A stock solution may be made by dissolving the cyazofamid in the solvent of choice, which should be purged with an inert gas. Cyazofamid is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of cyazofamid in these solvents is approximately 10 and 15 mg/ml, respectively.

Description

Cyazofamid is a fungicide.¹ It is active against several isolates of *P. infestans*, as well as *P. sojae*, *P. aphanidermatum*, *P. paddicum*, *P. sylvaticum*, and *A. cochlioides* (EC₅₀s = 0.008-0.03, 0.2, 0.02, 0.2, 0.2, and 0.2 µg/ml, respectively). Cyazofamid (10 µM) selectively inhibits *P. spinosum* mitochondrial complex III, also known as cytochrome bc₁ complex, activity over *B. cinerea*, *S. cerevisiae*, potato tuber, and rat liver mitochondrial complex III activities.² It protects against *P. brassicae*-induced root hair infections in cabbage when applied to dry soil at a dose of 10 mg/kg.³ Formulations containing cyazofamid have been used as fungicides in agriculture.

References

1. Mitani, S., Araki, S., Yamaguchi, T., *et al.* Antifungal activity of the novel fungicide cyazofamid against *Phytophthora infestans* and other plant pathogenic fungi *in vitro*. *Pest. Biochem. Phys.* **70(2)**, 92-99 (2001).
2. Mitani, S., Araki, A., Takii, Y., *et al.* The biochemical mode of action of the novel selective fungicide cyazofamid: Specific inhibition of mitochondrial complex III in *Phythium spinosum*. *Pest. Biochem. Phys.* **71(2)**, 107-115 (2001).
3. Mitani, S., Sugimoto, K., Hayashi, H., *et al.* Effects of cyazofamid against *Plasmodiophora brassicae* Woronin on Chinese cabbage. *Pest. Manag. Sci.* **59(3)**, 287-293 (2003).

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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