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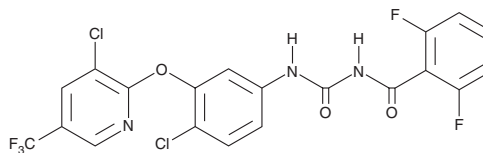
PRODUCT INFORMATION



Fluazuron

Item No. 22283

CAS Registry No.: 86811-58-7
Formal Name: N-[[[4-chloro-3-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]amino]carbonyl]-2,6-difluoro-benzamide
Synonym: CGA 157419
MF: C₂₀H₁₀Cl₂F₅N₃O₃
FW: 506.2
Purity: ≥98%
UV/Vis.: λ_{max}: 257 nm
Supplied as: A crystalline 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

Fluazuron is supplied as a crystalline solid. A stock solution may be made by dissolving the fluazuron in the solvent of choice which should be purged with an inert gas. Fluazuron is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of fluazuron in these solvents is approximately 30 mg/ml.

Fluazuron is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fluazuron should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Fluazuron has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Fluazuron is an acaricide widely-used to control tick populations in cattle, sheep, and pigs.^{1,2} Fluazuron inhibits chitin formation limiting viable egg production and prevents immature ticks from moulting.¹ It is effective against populations of *R. microplus*, *R. sanguineus*, *S. scabiei*, and *Y. pestis* at host doses ranging from 1.5 to 100 mg/kg.^{1,3-6} Fluazuron does not effect populations of *F. candida* or *O. gazella*, alleviating concerns about non-specific insecticide activity.^{2,7} Resistance to fluazuron in certain *R. microplus* strains may be emerging.⁸

References

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4. de Oliveira, P.R., Calligaris, I.B., Roma, G.C., et al. *Exp. Parasitol.* **131(1)**, 35-39 (2012).
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7. Kryger, U., Deschodt, C., Davis, A.L.V., et al. *Vet. Parasitol.* **143(3-4)**, 380-384 (2007).
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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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