

Product Data Sheet

Product Name: Fluazuron

Cat. No.: GC43678

Chemical Properties

Cas. No. 86811-58-7

SMILES FC1=C(C(NC(NC2=CC(OC3=C(Cl)C=C(C(F)(F)F)C=N3)=C(Cl)C=C2)=O)=O)C(F)=CC=C1

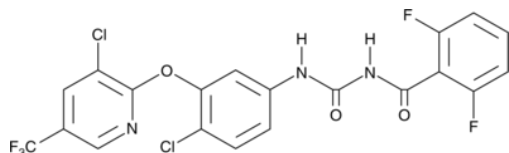
Formula C₂₀H₁₀Cl₂F₅N₃O₃ M.Wt 506.2

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO: PBS (pH 7.2) (1:1): 0.5 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Fluazuron is an acaricide widely-used to control tick populations in cattle, sheep, and pigs. Fluazuron inhibits chitin formation limiting viable egg production and prevents immature ticks from moulting. 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. Fluazuron does not effect populations of *F. candida* or *O. gazella*, alleviating concerns about non-specific insecticide activity. Resistance to fluazuron in certain *R. microplus* strains may be emerging.

Caution: Product has not been fully validated for medical applications. For research use only.

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