

Product Data Sheet

Product Name: Lufenuron

Cat. No.: GC61832

Chemical Properties

Cas. No. 103055-07-8

SMILES O=C(NC(NC1=CC(Cl)=C(OC(F)(F)C(F)C(F)(F)F)C=C1Cl)=O)C2=C(F)C=CC=C2F

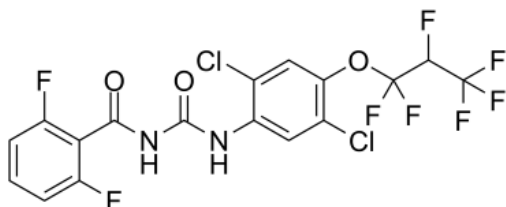
Formula $C_{17}H_8Cl_2F_8N_2O_3$ M.Wt 511.15

Solubility DMSO : 250 mg/mL (489.09 mM) 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

Lufenuron is a lipophilic benzoylurea insecticide and a chitin synthesis inhibitor that can be used for flea and fish lice control. Lufenuron inhibits moulting of arthropods [1][2].

References:

[1]. T C M Brock, et al. Toxicity of Sediment-Bound Lufenuron to Benthic Arthropods in Laboratory Bioassays. Aquat Toxicol. 2018 May;198:118-128.

[2]. Cai Wang, et al. Lufenuron Suppresses the Resistance of Formosan Subterranean Termites

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

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(Isoptera: Rhinotermitidae) to Entomopathogenic Bacteria. J Econ Entomol. 2013 Aug;106(4):1812-8.

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