
Product Data Sheet

Product Name: Hexaflumuron

Cat. No.: GC39683

Chemical Properties

Cas. No. 86479-06-3

SMILES O=C(NC(NC1=CC(Cl)=C(OC(F)(F)C(F)F)C(Cl)=C1)=O)C2=C(F)C=CC=C2FFormula C16H8Cl2F6N2O3

M.Wt 461.14

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS(pH 7.2)
(1:2): 0.3 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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Hexaflumuron is a chitin synthesis inhibitor used to bait and eliminate termite colonies.¹ Hexaflumuron spreads efficiently through entire populations through mutual exchange of liquids *via* regurgitation.² Termites are unable to metabolize hexaflumuron and clearance is slow, resulting in up to 100% elimination. Hexaflumuron has also been tested for use with the raisin moth, cowpea weevil, and Asiatic rice borer with positive results.^{3,4}

1. Evans, T.A., and Iqbal, N. Termite (order Blattodea, infraorder Isoptera) baiting 20 years after commercial release. *Pest. Manag. Sci.* 71(7)897-906(2015) 2. Sheets, J.J., Karr, L.L., and Dripps, J.E. Kinetics of uptake, clearance, transfer, and metabolism of hexaflumuron by eastern subterranean termites (Isoptera: Rhinotermitidae). *J. Econ. Entomol.* 93(3)871-877(2000) 3. Khajepour, S., Izadi, H., and Asari, M.J. Evaluation of two formulated chitin synthesis inhibitors, hexaflumuron and lufenuron against the raisin moth, *Ephestia figulilella*. *Insect. Sci.* 12102(2012) 4. Abo-Elghar, G.E., El-Sheikh, A.E., El-Sayed, F.M., et al. Persistence and residual activity of an organophosphate, pirimiphos-methyl, and three

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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IGRs, hexaflumuron, teflubenzuron and pyriproxyfen, against the cowpea weevil, *Callosobruchus maculatus* (Coleoptera: Bruchidae) *Pest. Manag. Sci.* 60(1)95-102(2004)

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