



LKT Laboratories, Inc.

DiFlubenzuron

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Product Information

Product ID D3219

CAS No. 35367-38-5

Chemical Name N-(((4-chlorophenyl)amino)carbonyl)- 2,6-difluoro- benzamide

Synonym Difluron, Dimilin, Duphacid, Micromite.

Formula C₁₄H₉ClF₂N₂O₂

Formula Wt. 310.68

Melting Point 239 °C

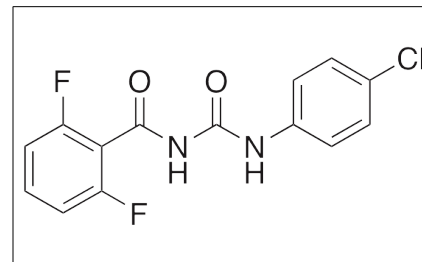
Purity ≥95%

Solubility Soluble in acetone (0.65 gm/100ml at 20°C), DMSO or methanol.

Store Temp 4 °C

Ship Temp Ambient

Description Diflubenzuron is a benzoylurea insecticide that disrupts chitin synthesis, acting as an insect growth regulator. Diflubenzuron displays efficacy against *Tribolium*, *Anopheles*, *Ascaris*, and *Haemonchus*.



Bulk quantities available upon request

Product ID	Size
D3219	1 g
D3219	10 g
D3219	25 g
D3219	100 g

References Merzendorfer H, Kim HS, Chaudhari SS, et al. Genomic and proteomic studies on the effects of the insect growth regulator diflubenzuron in the model beetle species *Tribolium castaneum*. *Insect Biochem Mol Biol.* 2012 Apr;42(4):264-76. PMID: 22212827.

Zhang J, Zhu KY. Characterization of a chitin synthase cDNA and its increased mRNA level associated with decreased chitin synthesis in *Anopheles quadrimaculatus* exposed to diflubenzuron. *Insect Biochem Mol Biol.* 2006 Sep;36(9):712-25. PMID: 16935220.

Fetterer RH, Urban JF Jr, Miller RW. Effects of the chitin synthesis inhibitor diflubenzuron on development of *Ascaris suum* and *Haemonchus contortus*. *Vet Parasitol.* 1989 Jul 15;32(2-3):181-92. PMID: 2505433.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.