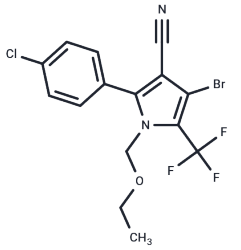
Data Sheet (Cat.No.T19829)

TargetMol

Chlorfenapyr

Chemical Properties



CAS No. : 122453-73-0

Formula: C15H11BrClF3N2O

Molecular Weight: 407.61

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Chlorfenapyr (AC 303630) is a pyrrole insecticide and converts active substances (insecticidal activity) in insects by a multifunctional oxidase
Targets(IC50)	Others,OXPHOS,Parasite

Solubility Information

Solubility	DMSO: 257.5 mg/mL (631.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (24.53 mM),Suspension. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4533 mL	12.2666 mL	24.5333 mL
5 mM	0.4907 mL	2.4533 mL	4.9067 mL
10 mM	0.2453 mL	1.2267 mL	2.4533 mL
50 mM	0.0491 mL	0.2453 mL	0.4907 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Oxborough RM, N'Guessan R, et al. The activity of the pyrrole insecticide chlorfenapyr in mosquito bioassay: towards a more rational testing and screening of non-neurotoxic insecticides for malaria vector control. Malar J. 2015 Mar 24;14:124.

Verma V, Elamathi N, Velamuri PS, Sreehari U, Agrawal OP, Raghavendra K. Chlorfenapyr: irritant effect compared to other insecticides and its intrinsic toxicity in multiple-insecticide-susceptible and -resistant Anopheles stephensi (Diptera: Culicidae). J Vector Borne Dis. 2015 Mar;52(1):99-103.

Huang JX, Liu CY, Lu DH, Chen JJ, Deng YC, Wang FH. Residue behavior and risk assessment of mixed formulation of imidacloprid and chlorfenapyr in chieh-qua under field conditions. Environ Monit Assess. 2015 Oct;187(10):650. doi: 10.1007/s10661-015-4846-2. Epub 2015 Sep 28. PubMed PMID: 26412080.

Huang JX, Liu CY, Lu DH, Chen JJ, Deng YC, Wang FH. Residue behavior and risk assessment of mixed formulation of imidacloprid and chlorfenapyr in chieh-qua under field conditions. Environ Monit Assess. 2015 Oct;187(10):650.