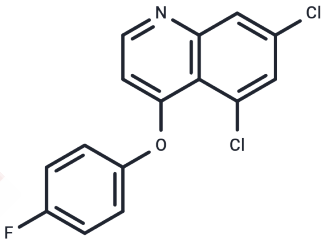
Data Sheet (Cat.No.T20672)

TargetMol

Quinoxyfen

Chemical Properties



CAS No. : 124495-18-7

Formula: C15H8Cl2FNO

Molecular Weight: 308.13

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	Quinoxyfen has antimicrobial activity and can be used to study powdery mildew.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 45 mg/mL (146.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2454 mL	16.2269 mL	32.4538 mL
5 mM	0.6491 mL	3.2454 mL	6.4908 mL
10 mM	0.3245 mL	1.6227 mL	3.2454 mL
50 mM	0.0649 mL	0.3245 mL	0.6491 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

Feng X, et al. Evaluation of Quinoxyfen Resistance of Erysiphe necator (Grape Powdery Mildew) in a Single Virginia Vineyard. Plant Dis. 2018 Dec;102(12):2586-2591.

Johnson PL, et al. Improved synthetic route to quinoxyfen photometabolite 2-chloro-10-fluorochromeno[2,3,4-de] quinoline. Pest Manag Sci. 2017 Aug;73(8):1703-1708.

Wheeler IE, et al. Quinoxyfen perturbs signal transduction in barley powdery mildew (Blumeria graminis f.sp. hordei). Mol Plant Pathol. 2003 May 1;4(3):177-86.

Duncan H, et al. Immunochemical rapid determination of quinoxyfen, a priority hazardous pollutant. Chemosphere. 2018 Nov;211:302-307.

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