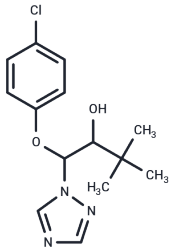
Data Sheet (Cat.No.T34924)

TargetMol

Triadimenol

Chemical Properties



CAS No. : 55219-65-3

Formula: C14H18ClN3O2

Molecular Weight: 295.77

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	Triadimenol (UK 199) is a triazole fungicide that is cardiotoxic, promotes reactive oxygen species (ROS) production and apoptosis in zebrafish, and induces morphologic changes in zebrafish eyes and body length, as well as yolk sac and cardiac edema.
Targets(IC50)	Antifungal
In vitro	Triadimenol (6.25-125 μM) affects the growth of rat embryonic brain neurons and ganglia after being cultured in rat serum for 48 hours. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.381 mL	16.905 mL	33.8101 mL
5 mM	0.6762 mL	3.381 mL	6.762 mL
10 mM	0.3381 mL	1.6905 mL	3.381 mL
50 mM	0.0676 mL	0.3381 mL	0.6762 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

Menegola E, et al. In vitro teratogenic potential of two antifungal triazoles: triadimefon and triadimenol. In Vitro Cell Dev Biol Anim. 2000 Feb;36(2):88-95.
Chu SH, et al. Developmental exposures to an azole fungicide triadimenol at environmentally relevant concentrations cause reproductive dysfunction in females of medaka fish. Chemosphere. 2016 Jun;152:181-9.
Yao Z, et al. Simultaneous enantioselective determination of triadimefon and its metabolite triadimenol in edible vegetable oil by gel permeation chromatography and ultraperformance convergence chromatography/tandem mass spectrometry. Anal Bioanal Chem. 2015 Nov;407(29):8849-59.
Li W, Zhao L, Zhang H, Chen X, Chen S, Zhu Z, Hong Z, Chai Y. Enantioseparation of new triadimenol antifungal active compounds by electrokinetic chromatography and molecular modeling study of chiral recognition mechanisms. Electrophoresis. 2014 Oct;35(19):2855-62. doi: 10.1002/elps.201300607. Epub 2014 Mar 26. PubMed PMID: 24615979.

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