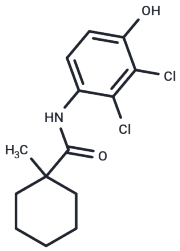
Data Sheet (Cat.No.T20237)

TargetMol

Fenhexamid

Chemical Properties



CAS No. : 126833-17-8

Formula: C14H17Cl2NO2

Molecular Weight: 302.20

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	Fenhexamid (Elevate), a sterol biosynthesis inhibitor, shows antifungal activity against the plant pathogenic fungus. Fenhexamid is used for agriculture and is present in measurable amounts in fruits and vegetables.
Targets(IC50)	Estrogen Receptor/ERR,Antifungal,PI3K

Solubility Information

Solubility	DMSO: 40 mg/mL (132.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.62 mM),Sonication is recommended. *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	3.3091 mL	16.5453 mL	33.0907 mL
5 mM	0.6618 mL	3.3091 mL	6.6181 mL
10 mM	0.3309 mL	1.6545 mL	3.3091 mL
50 mM	0.0662 mL	0.3309 mL	0.6618 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

Mofeed J, Mosleh YY. Toxic responses and antioxidative enzymes activity of Scenedesmus obliquus exposed to fenhexamid and atrazine, alone and in mixture. Ecotoxicol Environ Saf. 2013 Sep;95:234-40.
Teng Y, et al. Endocrine disruptors fludioxonil and fenhexamid stimulate miR-21 expression in breast cancer cells. Toxicol Sci. 2013 Jan;131(1):71-83.
Debieu D, et al. Role of sterol 3-ketoreductase sensitivity in susceptibility to the fungicide fenhexamid in Botrytis cinerea and other phytopathogenic fungi. Pest Manag Sci. 2013 May;69(5):642-51.
Go RE, Kim CW, Choi KC. Effect of fenhexamid and cyprodinil on the expression of cell cycle- and metastasis-related genes via an estrogen receptor-dependent pathway in cellular and xenografted ovarian cancer models. Toxicol Appl Pharmacol. 2015 Nov 15;289(1):48-57.

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