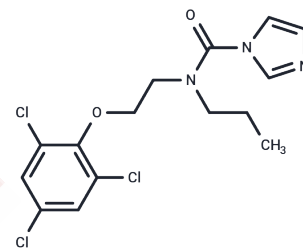


Prochloraz

Chemical Properties

CAS No. :	67747-09-5
Formula:	C ₁₅ H ₁₆ Cl ₃ N ₃ O ₂
Molecular Weight:	376.67
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	Prochloraz (Prelude) is a broad-spectrum contact imidazole fungicide. Prochloraz inhibits human placental microsomal aromatase in vitro (IC ₅₀ = 40 nM). Prochloraz also acts as an estrogen receptor (IC ₅₀ s = 25 μM) and androgen receptor (IC ₅₀ = 4 μM) antagonist, and activates aryl hydrocarbon receptors (EC ₅₀ = 1 μM).
Targets(IC ₅₀)	Estrogen Receptor/ERR,AhR,Aryl Hydrocarbon Receptor,Androgen Receptor,Antifungal

Solubility Information

Solubility	DMSO: 250 mg/mL (663.71 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: 1 mg/mL (2.65 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6548 mL	13.2742 mL	26.5484 mL
5 mM	0.531 mL	2.6548 mL	5.3097 mL
10 mM	0.2655 mL	1.3274 mL	2.6548 mL
50 mM	0.0531 mL	0.2655 mL	0.531 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

- Liu J, et al. Whole transcriptome analysis of *Penicillium digitatum* strains treated with prochloraz reveals their drug-resistant mechanisms. *BMC Genomics*. 2015 Oct 24;16:855.
- Alpertunga B, et al. Effects of prochloraz on DNA damage, lipid peroxidation and antioxidant system in vitro. *Toxicol Mech Methods*. 2014 May;24(4):268-75.
- Baumann L, et al. Prochloraz causes irreversible masculinization of zebrafish (*Danio rerio*). *Environ Sci Pollut Res Int*. 2015 Nov;22(21):16417-22.
- Lundqvist J, et al. Fungicide prochloraz induces oxidative stress and DNA damage in vitro. *Food Chem Toxicol*. 2016 May;91:36-41.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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