

Faltan

Chemical Properties

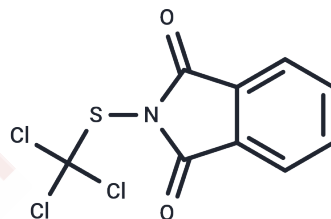
CAS No. : 133-07-3

Formula: C₉H₄Cl₃N₂O₂S

Molecular Weight: 296.56

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	Faltan (Folpet), a widely used dicarboximide fungicide, induces tumors in the mouse gastrointestinal tract, primarily in the duodenum, and is also cytotoxic effect on human bronchial epithelial cells.
Targets(IC50)	Antifungal
In vitro	Folpan 80WG particles result in a rapid cytotoxic effect on human bronchial epithelial cells in vitro that could be in part explained by oxidative stress, characterised by membrane lipid peroxidation and ROS production[1].
Cell Research	Sub-confluent 16HBE14o- plated on collagen-coated 60 mm dishes were exposed to Folpan 80WG particles corresponding to 0, 1.85 and 3.70 g/cm ² folpet (0, 10 and 20 μM) for 2, 4 and 24 h in RPMI-1640 medium w/o phenol red, w/o FCS, supplemented with 1% L-glutamine (200 mM), 1% penicillin (10 ⁴ U/ml), 1% streptomycin (10 mg/ml) and 1% fungizone (25 μg/ml)[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (421.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (16.86 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	3.372 mL	16.860 mL	33.720 mL
5 mM	0.6744 mL	3.372 mL	6.744 mL
10 mM	0.3372 mL	1.686 mL	3.372 mL
50 mM	0.0674 mL	0.3372 mL	0.6744 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

Canal-Raffin M , Béatrice l'Azou, Jorly J , et al. Cytotoxicity of folpet fungicide on human bronchial epithelial cells[J]. Toxicology, 2008, 249(2):160-166.

Gordon E , Cohen S M , Singh P . Folpet-induced short term cytotoxic and proliferative changes in the mouse duodenum[J]. Toxicology Mechanisms and Methods, 2012, 22(1):54-59.

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