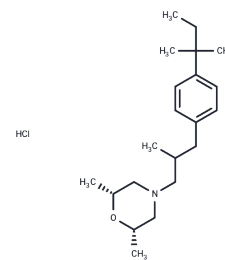


Amorolfine hydrochloride

Chemical Properties

CAS No. :	78613-38-4
Formula:	C ₂₁ H ₃₆ ClNO
Molecular Weight:	353.97
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	Amorolfine hydrochloride (Amorolfine HCl) is an antifungal reagent. It exerts the antifungal activity by selectively interrupting two steps in the pathway of ergosterol synthesis and eventually disrupting the function and structure of fungal cell membrane. Amorolfine hydrochloride, a morpholine antifungal drug, can inhibit D14 reductase and D7-D8 isomerase. These enzymes can deplete ergosterol and cause ergosterol to accumulate in the fungal cytoplasmic cell membranes.
Targets(IC50)	Antibiotic, Antifungal

Solubility Information

Solubility	DMSO: 16.67 mg/mL (47.09 mM), Sonication is recommended. H ₂ O: 9 mg/mL (25.43 mM), Sonication is recommended. Ethanol: 66 mg/mL (186.46 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 (2.83 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	2.8251 mL	14.1255 mL	28.251 mL
5 mM	0.565 mL	2.8251 mL	5.6502 mL
10 mM	0.2825 mL	1.4125 mL	2.8251 mL
50 mM	0.0565 mL	0.2825 mL	0.565 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

Espinel-Ingroff A, et al. Antimicrob Agents ChemOthers. 1984 Jul; 26(1):5-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481