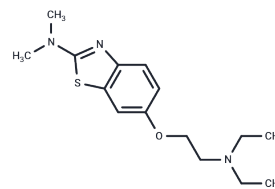


Diamthazole hydrochloride

Chemical Properties

CAS No. :	17140-69-1
Formula:	C ₁₅ H ₂₄ ClN ₃ O ₃
Molecular Weight:	329.89
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Diamthazole hydrochloride is an effective broad-spectrum antifungal agent. It exerts bactericidal effects by specifically disrupting fungal metabolic homeostasis and inhibiting cell wall biosynthesis, showing significant in vitro activity against various dermatophytes causing tinea pedis and corporis.
Targets(IC50)	Antifungal
In vitro	Diamthazole hydrochloride effectively suppresses the growth of cutaneous pathogens such as Trichophyton rubrum [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (242.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0313 mL	15.1566 mL	30.3131 mL
5 mM	0.6063 mL	3.0313 mL	6.0626 mL
10 mM	0.3031 mL	1.5157 mL	3.0313 mL
50 mM	0.0606 mL	0.3031 mL	0.6063 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

Marchese A, Arciola C R, Barbieri R, et al. Update on monoterpenes as antimicrobial agents: A particular focus on p-cymene[J]. Materials, 2017, 10(8): 947.

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