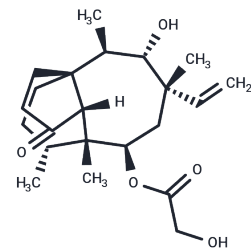


Pleuromutilin

Chemical Properties

CAS No. :	125-65-5
Formula:	C ₂₂ H ₃₄ O ₅
Molecular Weight:	378.5
Storage:	Store at low temperature 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	Pleuromutilin (Drosophilin B) is an inhibitor of bacterial protein synthesis by binding to the 50S ribosomal subunit of bacteria.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 100 mg/mL (264.2 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: 4 mg/mL (10.57 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	2.642 mL	13.210 mL	26.4201 mL
5 mM	0.5284 mL	2.642 mL	5.284 mL
10 mM	0.2642 mL	1.321 mL	2.642 mL
50 mM	0.0528 mL	0.2642 mL	0.5284 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

Shang RF et al. Synthesis and biological evaluation of new pleuromutilin derivatives as antibacterial agents. Molecules. 2014 Nov 19;19(11):19050-65.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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