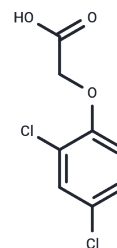


2,4-D

Chemical Properties

CAS No. :	94-75-7
Formula:	C ₈ H ₆ Cl ₂ O ₃
Molecular Weight:	221.04
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	2,4-Dichlorophenoxyacetic acid (Hedonal) is a synthetic auxin used as a plant growth regulator and also used as a supplement in plant cell culture media. It is an active ingredient in herbicides used to disrupts the actin cytoskeleton for the control of root elongation and cell production.
Targets(IC50)	Apoptosis,DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 247.5 mg/mL (1119.71 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: 2 mg/mL (9.05 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	4.5241 mL	22.6203 mL	45.2407 mL
5 mM	0.9048 mL	4.5241 mL	9.0481 mL
10 mM	0.4524 mL	2.262 mL	4.5241 mL
50 mM	0.0905 mL	0.4524 mL	0.9048 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

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