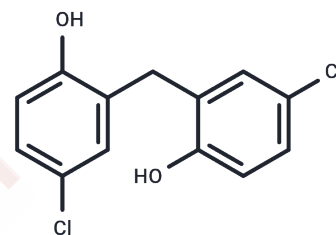


## Dichlorophen

## Chemical Properties

CAS No. :	97-23-4
Formula:	C <sub>13</sub> H <sub>10</sub> Cl <sub>2</sub> O <sub>2</sub>
Molecular Weight:	269.12
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	Dichlorophen (DDM) is a nontoxic laxative vermicide of chlorinated phenol compound. Dichlorophen is used as a veterinary fungicide, anthelmintic, and anti-protozoan, as well as an ingredient in antimicrobial soaps and shampoos. This agent probably acts by increasing the clearing of intestinal contents, thereby eradicating tapeworm infections from the intestines.
Targets(IC50)	Antibacterial,Parasite,Antifungal
Kinase Assay	Effect of inhibition of Acetaminophen on COX-1 and COX-2 activity in human whole blood: For COX-1 assay, aliquots of human whole blood drawn from healthy volunteers without anticoagulant are transferred to glass tubes containing Acetaminophen or DMSO, serum is separated by centrifugation after clotting, and serum TxB2 levels are determined. For COX-2 assay, aliquots of heparinized whole blood are incubated with LPS (10 µg/mL) and aspirin (10 µg/mL), plus Acetaminophen or DMSO for 24 hours at 37 °C, plasma is separated by centrifugation, and PGE2 levels are determined subsequently. The degree of COX-1 or COX-2 inhibition is calculated as the percentage change of plasma eicosanoid (TxB2 for COX-1 and PGE2 for COX-2).Concentration response curves are fitted by a sigmoidal regression with variable slope for both enzymatic assays, and the 50% inhibitory concentration (IC50) values are derived by using of PRISM Version 3.0.

## Solubility Information

Solubility	DMSO: 45 mg/mL (167.21 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 (7.43 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

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	1mg	5mg	10mg
1 mM	3.7158 mL	18.5791 mL	37.1581 mL
5 mM	0.7432 mL	3.7158 mL	7.4316 mL
10 mM	0.3716 mL	1.8579 mL	3.7158 mL
50 mM	0.0743 mL	0.3716 mL	0.7432 mL

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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

Langrand J, et al. Clin Toxicol (Phila). 2013 Mar;51(3):178-81.

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