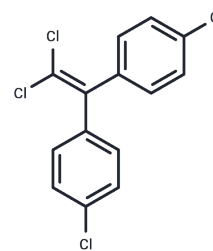


## p,p'-DDE

## Chemical Properties

CAS No. :	72-55-9
Formula:	C <sub>14</sub> H <sub>8</sub> Cl <sub>4</sub>
Molecular Weight:	318.03
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	p,p'-DDE (p,p'-dichlorodiphenyldichloroethylene) is a metabolite and degradation product of the organochlorine pesticide DDT
Targets(IC50)	Androgen Receptor, Drug Metabolite
In vitro	4,4'-DDE inhibits estrogen binding to rainbow trout estrogen receptors (rtERs) with an IC50 value of 8 μM[1]

## Solubility Information

Solubility	DMSO: 75 mg/mL (235.83 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 (6.29 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	3.1444 mL	15.7218 mL	31.4436 mL
5 mM	0.6289 mL	3.1444 mL	6.2887 mL
10 mM	0.3144 mL	1.5722 mL	3.1444 mL
50 mM	0.0629 mL	0.3144 mL	0.6289 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

Matthews J , Celius T , Halgren R , et al. Differential estrogen receptor binding of estrogenic substances: A species comparison[J]. The Journal of Steroid Biochemistry and Molecular Biology, 2000, 74(4):223-234.

Anna K Wójtowicz, Gregoraszczyk E L , Ptak A , et al. Effect of single and repeated in vitro exposure of ovarian follicles to o,p'-DDT and p,p'-DDT and their metabolites[J]. Polish journal of pharmacology, 2004, 56(4):465-472.

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