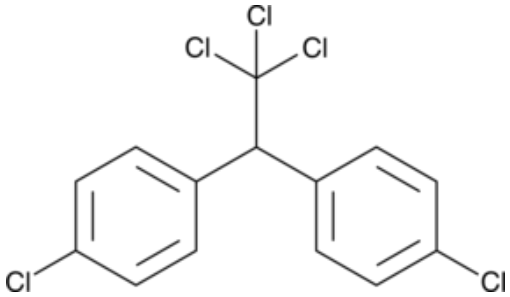
Product Data Sheet

Product Name: p,p'-DDT
Cat. No.: GC44528

Chemical Properties

Cas. No.	50-29-3		
SMILES	ClC1=CC=C(C(C(Cl)(Cl)Cl)C2=CC=C(Cl)C=C2)C=C1		
Formula	C14H9Cl5	M.Wt	354.5
Solubility	Chloroform: Slightly Soluble,Methanol: Heated	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

p,p'-DDT is an organochlorine pesticide that induces 94.2% mortality of malaria mosquito (A. quadrimaculatus) fourth-instar larvae and 100% mortality of A. aegypti larvae when used at concentrations of 0.01 and 0.05 ppm, respectively. It increases secretion of estradiol by granulosa and theca cell co-cultures isolated from porcine ovarian follicles when used at concentrations of greater than or equal to 4 ng/ml and increases apoptosis in isolated human peripheral blood mononuclear cells (PBMCs) when used at concentrations ranging from 80 to 150 µg/ml. p,p'-DDT (5 nmol/kg, i.p.) increases tumor growth in a DLD1 colorectal adenocarcinoma nude mouse xenograft model. It induces 100% mortality of C. auratus (goldfish) at 0.25 ppm and is lethal to rats but not hamsters (LD50s = 120 and ~5,000 mg/kg, respectively). p,p'-DDT is a persistent organic pollutant (POP) and is elevated in the sera of pregnant women in malaria-endemic regions of South Africa.

Caution: Product has not been fully validated for medical applications. For research use only.
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Formulations containing p,p'-DDT have been used to control insect populations, including mosquitos, in agriculture and to prevent the spread of malaria and typhus.