

Dipropyl phthalate

Chemical Properties

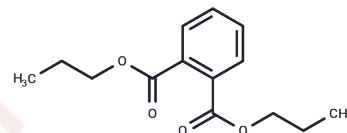
CAS No. : 131-16-8

Formula: C₁₄H₁₈O₄

Molecular Weight: 250.29

Storage: Store at 4°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dipropyl phthalate is a weak androgen receptor inhibitor, and can be used in biochemical experiments and drug synthesis.
Targets(IC50)	Androgen Receptor
In vitro	<p>Methods: Zebrafish embryos were treated with Dipropyl phthalate (0.1 mg/L, 0.5 mg/L, 1 mg/L, 2 mg/L, 4 mg/L, 8 mg/L, 12 mg/L, 20 mg/L, 30 mg/L, 40 mg/L, 80 mg/L and 100 mg/L), and the acute toxicity of DPRP to zebrafish embryos was tested according to the OECD guidelines (OECD, 2013).</p> <p>Results: The LC₅₀ of Dipropyl phthalate to zebrafish embryos was 16.79 mg/L, 9.987 mg/L, 6.140 mg/L, 3.959 mg/L, 1.185 mg/L and 0.918 mg/L after 24 h, 48 h, 72 h, 96 h, 120 h and 144 h, respectively. [1]</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9954 mL	19.9768 mL	39.9537 mL
5 mM	0.7991 mL	3.9954 mL	7.9907 mL
10 mM	0.3995 mL	1.9977 mL	3.9954 mL
50 mM	0.0799 mL	0.3995 mL	0.7991 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

Shen Q, et al. Dipropyl phthalate induces craniofacial chondrogenic defects in zebrafish embryos. *Ecotoxicol Environ Saf.* 2025 Jan 15;290:117603.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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