

Diethyl phthalate

Chemical Properties

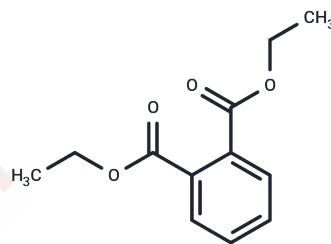
CAS No. : 84-66-2

Formula: C₁₂H₁₄O₄

Molecular Weight: 222.24

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Diethyl phthalate (1,2-diethyl benzene-1,2-dicarboxylate) is an endocrine disrupter affecting the apoptotic system in PC12 cells. Diethyl phthalate is widely used in many plastics and personal care products.
Targets(IC50)	Apoptosis

Solubility Information

Solubility	DMSO: 250 mg/mL (1124.91 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4996 mL	22.4982 mL	44.9964 mL
5 mM	0.8999 mL	4.4996 mL	8.9993 mL
10 mM	0.450 mL	2.2498 mL	4.4996 mL
50 mM	0.090 mL	0.450 mL	0.8999 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

Weaver JA, et al. Hazards of diethyl phthalate (DEP) exposure: A systematic review of animal toxicology studies. Environ Int. 2020 Dec;145:105848.

Sun Y, et al. Diethyl phthalate enhances apoptosis induced by serum deprivation in PC12 cells. Basic Clin Pharmacol Toxicol. 2012 Aug;111(2):113-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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