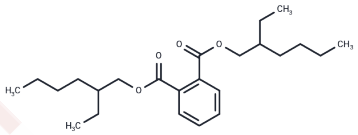
Data Sheet (Cat.No.T4797)

TargetMol

DEHP

Chemical Properties



CAS No. : 117-81-7

Formula: C24H38O4

Molecular Weight: 390.56

Storage: Store at low temperature
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	DEHP (Bis(2-ethylhexyl) phthalate) is utilized to impart softness and flexibility to PVC products. It has been implicated in obesity and insulin resistance, inhibits prostaglandin synthesis, and adversely affects the endocrine system.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 103 mg/mL (263.72 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: 1 mg/mL (2.56 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5604 mL	12.8021 mL	25.6043 mL
5 mM	0.5121 mL	2.5604 mL	5.1209 mL
10 mM	0.256 mL	1.2802 mL	2.5604 mL
50 mM	0.0512 mL	0.256 mL	0.5121 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

Corradetti B, et al. Bis-(2-ethylexhyl) phthalate impairs spermatogenesis in zebrafish (Danio rerio). Reprod Biol. 2013 Sep;13(3):195-202.
Qian Y, Zhu L, Chen J, et al.Di-(2-ethylhexyl) phthalate aggravates psoriasis-like skin lesions: In vitro and in vivo evaluation.Toxicology and Applied Pharmacology.2023: 116707.
Bagel S, et al. Influence of lipid type on bis (2-ethylhexyl)phthalate (DEHP) leaching from infusion line sets in parenteral nutrition. JPEN J Parenter Enteral Nutr. 2011 Nov;35(6):770-5.

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