

Dibutyl sebacate

Chemical Properties

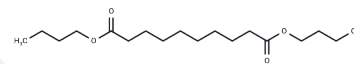
CAS No. : 109-43-3

Formula: C₁₈H₃₄O₄

Molecular Weight: 314.46

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	Dibutyl sebacate (Dibutyl decanedioate) is an organic compound primarily used as a plasticizer in plastic production.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 32.5 mg/mL (103.35 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (6.36 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

	1mg	5mg	10mg
1 mM	3.1801 mL	15.9003 mL	31.8005 mL
5 mM	0.636 mL	3.1801 mL	6.3601 mL
10 mM	0.318 mL	1.590 mL	3.1801 mL
50 mM	0.0636 mL	0.318 mL	0.636 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

Chaudhary R S , Patel T , Kumar J R , et al. Effect of substitution of plasticizer dibutyl phthalate with dibutyl sebacate on Eudragit® RS30D drug release rate control[J]. Pharmaceutical Development and Technology, 2019, 24 (3):276-282.

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