

Diethyl phosphate

Chemical Properties

CAS No. :	598-02-7
Formula:	C ₄ H ₁₁ O ₄ P
Molecular Weight:	154.101
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	Diethyl phosphate (Diethyl phosphoric acid), a Non-Specific Metabolite of Organophosphorus Pesticides.
Targets(IC50)	Endogenous Metabolite, Interleukin

Solubility Information

Solubility	DMSO: 60.00 mg/mL (389.36 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: 2.00 mg/mL (12.98 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	6.4893 mL	32.4465 mL	64.8929 mL
5 mM	1.2979 mL	6.4893 mL	12.9786 mL
10 mM	0.6489 mL	3.2446 mL	6.4893 mL
50 mM	0.1298 mL	0.6489 mL	1.2979 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

Yang F, Li J, Pang G, et al. Effects of Diethyl Phosphate, a Non-Specific Metabolite of Organophosphorus Pesticides, on Serum Lipid, Hormones, Inflammation, and Gut Microbiota[J]. *Molecules*. 2019 May 24;24(10).

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