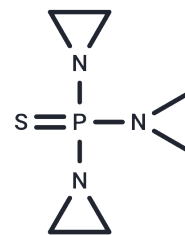


## Thio-TEPA

## Chemical Properties

CAS No. :	52-24-4
Formula:	C <sub>6</sub> H <sub>12</sub> N <sub>3</sub> PS
Molecular Weight:	189.22
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	Thio-TEPA (Tiofosyl) is a polyfunctional, organophosphorus alkylating agent with antineoplastic activity.
Targets(IC50)	Antibacterial, Antibiotic, DNA Alkylation, DNA Alkylator/Crosslinker

## Solubility Information

Solubility	DMSO: 91 mg/mL (480.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (17.44 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	5.2849 mL	26.4243 mL	52.8485 mL
5 mM	1.057 mL	5.2849 mL	10.5697 mL
10 mM	0.5285 mL	2.6424 mL	5.2849 mL
50 mM	0.1057 mL	0.5285 mL	1.057 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

Gor PP, et al. Breast Y Res. 2010;12(3):R26.

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