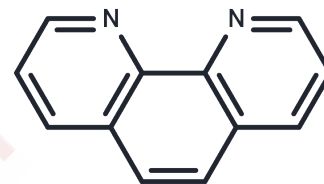


o-Phenanthroline

Chemical Properties

CAS No. :	66-71-7
Formula:	C ₁₂ H ₈ N ₂
Molecular Weight:	180.21
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	o-Phenanthroline (1,10-Phenanthroline) , a metal chelator, prevents the induction of chromosomal aberrations in streptozotocin-treated cells.o-Phenanthroline protects mammalian cells from hydrogen peroxide-induced gene mutation and morphological transformation.
Targets(IC50)	MMP

Solubility Information

Solubility	DMSO: 250 mg/mL (1387.27 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 mg/mL (11.1 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	5.5491 mL	27.7454 mL	55.4908 mL
5 mM	1.1098 mL	5.5491 mL	11.0982 mL
10 mM	0.5549 mL	2.7745 mL	5.5491 mL
50 mM	0.111 mL	0.5549 mL	1.1098 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

Nassi-Calò, Lilian, Mello-Filho A C , Meneghini R . o\r, -Phenanthroline protects mammalian cells from hydrogen peroxide-induced gene mutation and morphological transformation[j]. Carcinogenesis, 1989, 10(6):1055-1057.

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