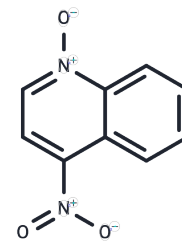


4-Nitroquinoline 1-oxide

Chemical Properties

CAS No. :	56-57-5
Formula:	C ₉ H ₆ N ₂ O ₃
Molecular Weight:	190.16
Storage:	Store at low temperature, Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4-Nitroquinoline 1-oxide (4-NQO) is a chemical carcinogen that induces mutations in bacteria, fungi, and animals through the formation of large amounts of purine adducts.
Targets(IC50)	Apoptosis, Others, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 62.5 mg/mL (328.67 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) (< 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 (10.52 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	5.2587 mL	26.2936 mL	52.5873 mL
5 mM	1.0517 mL	5.2587 mL	10.5175 mL
10 mM	0.5259 mL	2.6294 mL	5.2587 mL
50 mM	0.1052 mL	0.5259 mL	1.0517 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

Damien J Downes, et al. G3 (Bethesda) . 2014 Oct 27;4(12):2483-92.

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