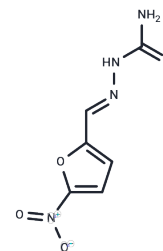


Nitrofurazone

Chemical Properties

CAS No. :	59-87-0
Formula:	C ₆ H ₆ N ₄ O ₄
Molecular Weight:	198.14
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	Nitrofurazone (Nitrofurazone; Furacilin) is an orally active nitroaromatic broad-spectrum antibiotic with activity against both Gram-positive and Gram-negative bacteria. It is commonly used for establishing breast cancer models.
Targets(IC50)	Antibacterial, Antibiotic, Dehydrogenase, Glutathione reductase

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 55 mg/mL (277.58 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 (10.09 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	5.0469 mL	25.2347 mL	50.4694 mL
5 mM	1.0094 mL	5.0469 mL	10.0939 mL
10 mM	0.5047 mL	2.5235 mL	5.0469 mL
50 mM	0.1009 mL	0.5047 mL	1.0094 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

Imming P, et al. Nat Rev Drug Discov. 2006 Oct; 5(10):821-34.

Lai S, Kumari A, Liu J, et al. Chemical screening reveals Ronidazole is a superior prodrug to Metronidazole for nitroreductase-induced cell ablation system in zebrafish larvae. Journal of Genetics and Genomics. 2021

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