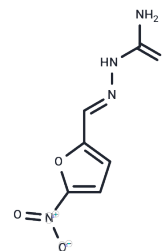


## Nitrofurazone

## Chemical Properties

CAS No. :	59-87-0
Formula:	C <sub>6</sub> H <sub>6</sub> N <sub>4</sub> O <sub>4</sub>
Molecular Weight:	198.14
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Nitrofurazone (Furacilin) is a topical anti-infective agent effective against gram-negative and gram-positive bacteria. It is used for superficial WOUNDS AND INJURIES and skin infections. Nitrofurazone(NFZ) has also been administered orally in the treatment of TRYPANOSOMIASIS.
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)
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## 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.

## 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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481