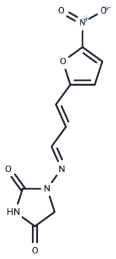
Data Sheet (Cat.No.T4273)

TargetMol

Furagin

Chemical Properties



CAS No. : 1672-88-4

Formula: C10H8N4O5

Molecular Weight: 264.19

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	Furagin (Furazidine) is a Nitrofuran derivative with anti-infective activity used for urinary tract infections.
Targets(IC50)	Antibacterial,Antibiotic,Carbonic Anhydrase
In vitro	The furagin concentrations in serum remain several hours above the MIC concentrations of many pathogenic bacteria. Despite the high concentrations in serum, the urine levels of furagin were generally lower than those of nitrofurantoin. The 24 hr recoveries in urine were 8--13% for furagin and about 36% for nitrofurantoin.
In vivo	A time-independent increase in SCE frequency was found in lymphocytes of children treated with furagin. Total CA frequency did not differ significantly between groups of children with various duration of furagin treatment.

Solubility Information

Solubility	DMSO: 10 mg/mL (37.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7852 mL	18.9258 mL	37.8515 mL
5 mM	0.757 mL	3.7852 mL	7.5703 mL
10 mM	0.3785 mL	1.8926 mL	3.7852 mL
50 mM	0.0757 mL	0.3785 mL	0.757 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

Mannisto P, et al. Pharmacokinetics of furagin, a new nitrofurantoin congener, on human volunteers. Int J Clin Pharmacol Biopharm. 1979 Jun;17(6):264-70.
Slapsyte G, et al. Cytogenetic analysis of children under long-term antibacterial therapy with nitroheterocyclic compound furagin. Mutat Res. 2001 Apr 5;491(1-2):25-30.
Dybowski B, et al. Ciprofloxacin and furagin in acute cystitis: comparison of early immune and microbiological results. Int J Antimicrob Agents. 2008 Feb;31(2):130-4.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481