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产品名称: **Furagin**
产品别名: 呋喃烯啉; **Furazidine; Furazidin**

生物活性:				
Description	Furagin, nitrofurantoin analog, is an anti-bacterial agent. Furagin is 2-substituted 5-nitrofurane, chemically and structurally similar to well-known antibacterial compound nitrofurantoin. IC50 Value: Target: Antibacterial 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 [1]. 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 [2]. Women were randomised into two groups receiving either ciprofloxacin 250mg twice a day for 3 days (n=13) or furagin 100mg three times a day for 7 days (n=14). Median lengths of follow-up were 4 days and 5 days in the ciprofloxacin and furagin groups, respectively [3].			
	In Vitro: DMSO : ≥ 33 mg/mL (124.91 mM) * "≥" means soluble, but saturation unknown.			
Solvent&Solubility	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	3.7852 mL	18.9258 mL
		5 mM	0.7570 mL	3.7852 mL
		10 mM	0.3785 mL	1.8926 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。			
References	[1]. 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. [2]. 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. [3]. 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.			