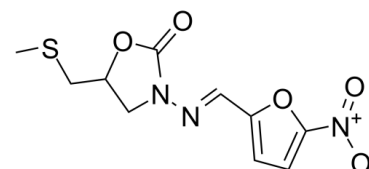


Data Sheet

Product Name:	Nifuratel
Cat. No.:	CS-1635
CAS No.:	4936-47-4
Molecular Formula:	C ₁₀ H ₁₁ N ₃ O ₅ S
Molecular Weight:	285.28
Target:	Bacterial; Parasite
Pathway:	Anti-infection
Solubility:	DMSO : 50 mg/mL (175.27 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Nifuratel(NF 113, SAP 113) is a broad antibacterial spectrum agent, which is used as an antibacterial, antifungal, and antiprotozoal (Trichomonas). IC₅₀ Value: 0.125-1 µg/mL(MIC, *A. vaginae*) [1] Target: Antibacterial; Antiprotozoal in vitro: In vitro, nifuratel is able to inhibit the growth of *A. vaginae*, with a MIC range of 0.125-1 µg/mL; it is active against *G. vaginalis* and does not affect lactobacilli [1]. in vivo: Patients were randomized to receive a 2-week course of bismuth subcitrate (8 mg/kg/day, q.d.s.), amoxicillin (50 mg/kg/day, q.d.s.), with either nifuratel (15 mg/kg/day, q.d.s.) or furazolidone (10 mg/kg/day, q.d.s.), plus omeprazole (0.5 mg/kg, once daily) [2]. Toxicity: There were no serious adverse reactions and were no withdrawals due to any side-effects. All of side-effects were self-limiting (dark stools, urine discoloration, blackening of the tongue, and others) [3]. Clinical trial: N/A

References:

- [1]. Polatti F. Bacterial vaginosis, *Atopobium vaginae* and nifuratel. *Curr Clin Pharmacol*. 2012 Feb 1;7(1):36-40.
- [2]. Nijevitch AA, et al. *Helicobacter pylori* eradication in childhood after failure of initial treatment: advantage of quadruple therapy with nifuratel to furazolidone. *Aliment Pharmacol Ther*. 2005 Nov 1;22(9):881-7.
- [3]. Nijevitch AA, et al. Nifuratel-containing initial anti-*Helicobacter pylori* triple therapy in children. *Helicobacter*. 2007 Apr;12(2):132-5.

CAIndexNames:

2-Oxazolidinone, 5-[(methylthio)methyl]-3-[[[(5-nitro-2-furanyl)methylene]amino]-

SMILES:

O=C1OC(CSC)CN1/N=C/C2=CC=C([N+])([O-])=O)O2

Caution: Product has not been fully validated for medical applications. For research use only.

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