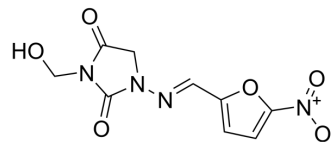


## Nifurtoinol

Cat. No.:	HY-128502
CAS No.:	1088-92-2
Molecular Formula:	C <sub>9</sub> H <sub>8</sub> N <sub>4</sub> O <sub>6</sub>
Molecular Weight:	268.18
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Nifurtoinol is a nitrofuran-derivative antibiotic with antibacterial effects. Nifurtoinol can be used for the research of urinary tract infections <sup>[1][2]</sup> .
<b>In Vitro</b>	Nifurtoinol shows MIC values of 0.9-50 mg/L to 122 strains of Escherichia coli, Klebsiella pneumoniae, Enterobacter sp., Citrobacter and Proteus vulgaris isolated from infected urinary tracts of children <sup>[2]</sup> . Nifurtoinol inhibits Pseudomonas aeruginosa and Proteus mirabilis with MIC values of 100->200 mg/L <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Kannigadu C, N'Da DD. Recent Advances in the Synthesis and Development of Nitroaromatics as Anti-Infective Drugs. *Curr Pharm Des.* 2020;26(36):4658-4674.
- [2]. Szozda Grazyna, et al. Comparative analysis of antibacterial activity of nitrofuran derivatives. *Polski Tygodnik Lekarski.* 1987;42(31-32): 967-9.

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

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