Product Data Sheet

Product Name: Ternidazole
Cat. No.: GC78906

Chemical Properties

Cas. No.	1077-93-6		
Formula	$C_7H_{11}N_3O_3$	M.Wt	185.18
Solubility	DMSO: 100 mg/mL (540.02 mM; Need ultrasonic)	Storage	Store at room temperature
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

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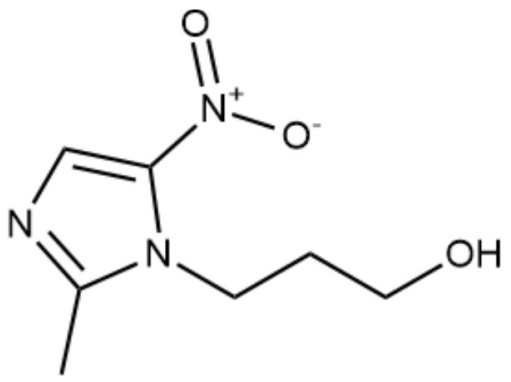
Structure



Background

Ternidazole is a nitroimidazole Antibiotic with anti-pathogenic microbial activity. Ternidazole kills and inhibits the visible growth of Clostridium perfringens type A in vitro. Ternidazole helps improve the therapeutic efficacy against bacterial vaginosis, candidal vaginitis and mixed vaginitis. Ternidazole effectively alleviates chronic alcoholism. Ternidazole can be used in research related to vaginitis, pathogenic microbial infections and chronic alcoholism [1] [2] [3].

In Vivo, Ternidazole (10 d, once daily) combined with Neomycin sulfate, Nystatin and Prednisolone improves clinical manifestations of mixed vulvovaginitis and reduces pathogen positive recurrence rate in vaginal infection related trials[1].

In Vitro, Ternidazole (0.3-40 μg/mL; 17-18 h) exerts bacteriostatic and bactericidal activities against

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Clostridium perfringens type A strains, and its MBC is mostly one serial dilution higher than matched MIC[2].

References:
[1]. Mian DB, et al. Efficacity of ternidazole-neomycin sulfate-nystatin and prednisolone association in syndromic management of vaginitis in low and middle incomes countries. Int J Reprod Contracept Obstet Gynecol. 2022 Feb;11(3):670.
[2]. Freydiere AM, et al. Activité des Nitroimidazoles sur Clostridium perfringens. CMI et CMB de cinq Antibiotiques: Metronidazole, Tinidazole, Ornidazole, Nimorazole et Ternidazole. Med Mal Infect. 1979;9(10):533-537.
[3]. Mahé N, et al. Solid-state studies of the triclinic (Z' = 2) antiprotozoal drug ternidazole. J Pharm Sci. 2011;100(6):2258-2266.

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