

Product Data Sheet

Product Name: Ornidazole

Cat. No.: GC10025

Chemical Properties

Cas. No. 16773-42-5

Chemical Name 1-chloro-3-(2-methyl-5-nitroimidazol-1-yl)propan-2-ol

SMILES CC1=NC=C(N1CC(CCl)O)[N+](=O)[O-]

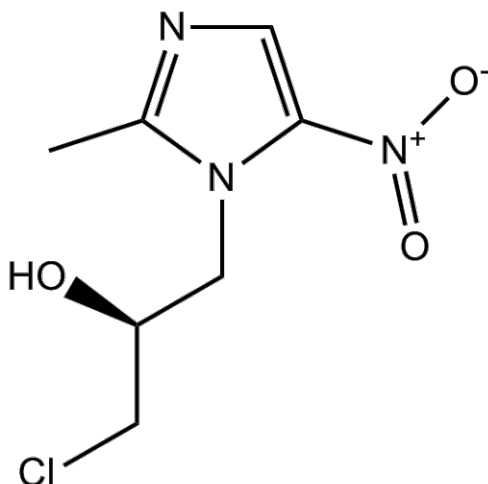
Formula $C_7H_{10}ClN_3O_3$ M.Wt 219.63

Solubility $\geq 11\text{mg/mL}$ in DMSO Storage 4°C , protect from light, stored under nitrogen

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.

Structure



Background

Ornidazole (Ro 7-0207) is a 5-nitroimidazole derivative with antiprotozoal and antibacterial properties against anaerobic bacteria. Target: Antibacterial; Antiparasitic. Ornidazole is a drug that cures some protozoan infections. Ornidazole 1 g/day is effective for the prevention of recurrence of Crohn's

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

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disease after ileocolonic resection [1]. Ornidazole is converted to reduction products that interact with DNA to cause destruction of helical DNA structure and strand leading to a protein synthesis inhibition and cell death in susceptible organisms [2].

References:

- [1]. Rutgeerts, P., et al., Ornidazole for prophylaxis of postoperative Crohn's disease recurrence: a randomized, double-blind, placebo-controlled trial. *Gastroenterology*, 2005. 128(4): p. 856-61.
- [2]. Goldstein, E.J., V.L. Sutter, and S.M. Finegold, Comparative susceptibilities of anaerobic bacteria to metronidazole, ornidazole, and SC-28538. *Antimicrob Agents Chemother*, 1978. 14(4): p. 609-13.

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