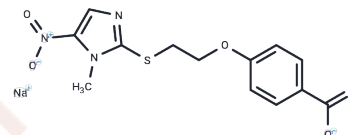


SC 28538

## Chemical Properties

CAS No. : 64444-68-4  
 Formula: C<sub>13</sub>H<sub>12</sub>N<sub>3</sub>NaO<sub>5</sub>  
 Molecular Weight: 345.31  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SC 28538 is a 5-nitroimidazole derivative which has been shown to be active against <i>B. fragilis</i> , <i>C. perfringens</i> , <i>T. vaginalis</i> , <i>T. foetus</i> , <i>P. hominis</i> and <i>N. gonorrhoea</i> in various in vitro screening models. In comparative studies with 284 strains of anaerobic bacteria SC 28538 was found to be as active as metronidazole or ornidazole.
Targets(IC50)	Others, Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8959 mL	14.4797 mL	28.9595 mL
5 mM	0.5792 mL	2.8959 mL	5.7919 mL
10 mM	0.2896 mL	1.448 mL	2.8959 mL
50 mM	0.0579 mL	0.2896 mL	0.5792 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Barrow A, Burford SR, Forrest TJ, Hawkins AJ, Rose DA, Stevens PM, Vose CW, Walls CM. Studies on the disposition of a 5-nitroimidazole in laboratory animals. *Eur J Drug Metab Pharmacokinet.* 1987 Apr-Jun;12(2):85-90. PubMed PMID: 3121339.

Vose CW, Stevens PM, Dickens JP. Liquid chromatographic analysis of an antimicrobial 5-nitroimidazolyl-2-sulphide derivative in biological fluids. *J Chromatogr.* 1981 Oct 9;225(2):488-92. PubMed PMID: 6795218.

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