

Metronidazole

Catalog No: tcsc2358



Available Sizes

Size: 5g

Size: 10g



Specifications

CAS No:

443-48-1

Formula:

$C_6H_9N_3O_3$

Pathway:

Anti-infection;Anti-infection

Target:

Bacterial;Parasite

Purity / Grade:

>98%

Solubility:

H₂O :

Observed Molecular Weight:

171.15

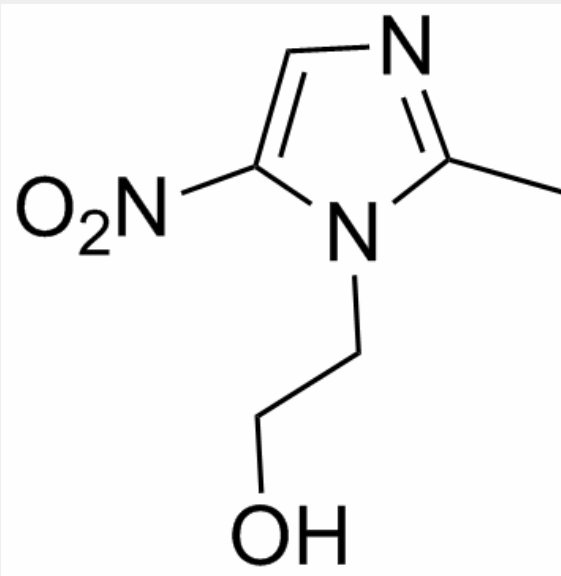
Product Description

Metronidazole is a nitroimidazole antibiotic medication used particularly for anaerobic bacteria and protozoa.

Target: Antibacterial; Antiparasitic

Metronidazole is a nitroimidazole antibiotic medication used particularly for anaerobic bacteria and protozoa. Metronidazole is an antibiotic, amebicide, and antiprotozoal.[1] It is the drug of choice for first episodes of mild-to-moderate Clostridium difficile infection

[2]. Metronidazole, taken up by diffusion, is selectively absorbed by anaerobic bacteria and sensitive protozoa. Once taken up by anaerobes, it is non-enzymatically reduced by reacting with reduced ferredoxin, which is generated by pyruvate oxido-reductase. Many of the reduced nitroso intermediates will form sulfinamides and thioether linkages with cysteine-bearing enzymes, thereby deactivating these critical enzymes. As many as 150 separate enzymes are affected. In addition or alternatively, the metronidazole metabolites are taken up into bacterial DNA, and form unstable molecules. This function only occurs when metronidazole is partially reduced, and because this reduction usually happens only in anaerobic cells, it has relatively little effect upon human cells or aerobic bacteria.[3]



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