

Dr. Dentist - FTM
Triclosan, Silica, Special Flavour.

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DENTAL TOOTHPASTE



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Each 5 gm contains

Composition

Triclosan, Silica, Special Flavour.

Indications

Twice Brushing with Dr. Dentist, gently removes tough stain, long lasting mint flavour keeps mouth clean & fresh, no harsh aprasives or bleach.

Description

Triclosan is a broad-spectrum antibacterial agent that inhibits bacterial fatty acid synthesis at the enoyl-acyl carrier protein reductase (FabI) step. Resistance to triclosan in Escherichia coli is acquired through a missense mutation in the fabI gene that leads to the expression of FabI[G93V]. The specific activity and substrate affinities of FabI[G93V] are similar to FabI. Two different binding assays establish that triclosan dramatically increases the affinity of FabI for NAD⁺. In contrast, triclosan does not increase the binding of NAD⁺ to FabI[G93V]. The x-ray crystal structure of the FabI-NAD⁺-triclosan complex confirms that hydrogen bonds and hydrophobic interactions between triclosan and both the protein and the NAD⁺ cofactor contribute to the formation of a stable ternary complex, with the drug binding at the enoyl substrate site. These data show that the formation of a noncovalent "bi-substrate" complex accounts for the effectiveness of triclosan as a FabI inhibitor and illustrates that mutations in the FabI active site that interfere with the formation of a stable FabI-NAD⁺-triclosan ternary complex acquire resistance to the drug.

Dosage

As per the physician's advice or Dentist Doctor's advices.

Presentations

100 gm

