



Sulfamethoxazole

Catalog No: tcsc2363

Available Sizes		
Size: 100mg		
Size: 500mg		
Specifications		
CAS No: 723-46-6		
Formula: C ₁₀ H ₁₁ N ₃ O ₃ S		
Pathway: Anti-infection		
Target: Bacterial		
Purity / Grade: >98%		
Solubility: H2O :		
Alternative Names: Ro 4-2130;STX 608		
Observed Molecular Weight:		

Product Description

253.28

Sulfamethoxazole is a sulfonamide bacteriostatic antibiotic.





Target: Antibacterial

Sulfonamides are structural analogs and competitive antagonists of para-aminobenzoic acid (PABA). They inhibit normal bacterial utilization of PABA for the synthesis of folic acid, an important metabolite in DNA synthesis. The effects seen are usually bacteriostatic in nature. Folic acid is not synthesized in humans, but is instead a dietary requirement. This allows for the selective toxicity to bacterial cells (or any cell dependent on synthesizing folic acid) over human cells. Bacterial resistance to sulfamethoxazole is caused by mutations in the enzymes involved in folic acid synthesis that prevent the drug from binding to it.

$$H_2N$$

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