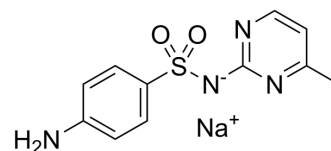


Sulfamerazine sodium salt

Cat. No.:	HY-B0512A
CAS No.:	127-58-2
Molecular Formula:	C ₁₁ H ₁₁ N ₄ NaO ₂ S
Molecular Weight:	286.29
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Sulfamerazine Sodium is a sulfonamide antibacterial. Target: Antibacterial Sulfamerazine, the monomethyl derivative of sulfadiazine, is 2-sulfanilamido-4-methylpyrimidine. Sulfamerazine is a sulfonamide drug that inhibits bacterial synthesis of dihydrofolic acid by competing with para-aminobenzoic acid (PABA) for binding to dihydropteroate synthetase (dihydrofolate synthetase). Sulfamerazine is bacteriostatic in nature. Inhibition of dihydrofolic acid synthesis decreases the synthesis of bacterial nucleotides and DNA [1].

REFERENCES

[1]. HALL, W.H. and W.W. SPINK, Sulfamerazine: clinical evaluation in 116 cases. Journal of the American Medical Association, 1943. 123(3): p. 125-131.

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

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