
Product Data Sheet

Product Name: Sulfamerazine sodium salt

Cat. No.: GC17458

Chemical Properties

Cas. No. 127-58-2

Chemical Name sodium;(4-aminophenyl)sulfonyl-(4-methylpyrimidin-2-yl)azanide

SMILES CC1=NC(=NC=C1)[N-]S(=O)(=O)C2=CC=C(C=C2)N.[Na+]Formula $C_{11}H_{11}N_4NaO_2S$ M.Wt 286.29

Solubility DMF: 20 mg/ml,DMSO: 15 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Sulfamerazine Sodium is a sulfonamide antibacterial.Target: AntibacterialSulfamerazine, 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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