

Product Data Sheet

Product Name: Sulfamethazine sodium

Cat. No.: GC38373

Chemical Properties

Cas. No. 1981-58-4

SMILES O=S(C1=CC=C(N)C=C1)([N-]C2=NC(C)=CC(C)=N2)=O.[Na+]

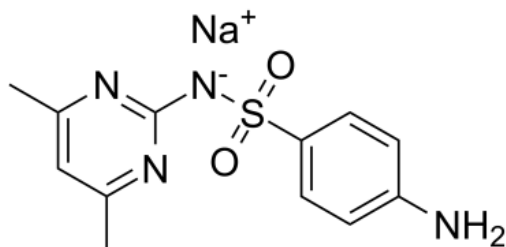
Formula $C_{12}H_{13}N_4NaO_2S$ M.Wt 300.31

Solubility DMSO : 60mg/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

Sulfamethazine sodium (Sulfadimidine sodium) is an antimicrobial that is widely used to treat and prevent various animal diseases (such as gastrointestinal and respiratory tract infections). In China and the European Commission, the maximum residue level for Sulfamethazine sodium in animal product is set at 100 µg/kg[1][2].

Sulfamethazine (80 mg/kg; intravenous injection; healthy female pigs) treatment significantly reduces α , β and $AUC_{0 \rightarrow \infty}$, significantly increases $t_{1/2\alpha}$, V_d and C_{1B} , and upon a single intramuscular

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

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administration of 80 mg/kg of Sulfamethazine the absolute bioavailability in pigs is 1.01[1]. Animal Model: 19 healthy female pigs (6-week-old, 4.5-6.2 kg)[1]

[1]. VAN Poucke LSG, et al. Pharmacokinetics and Tissue Residues of Sulfathiazole and Sulfamethazine in Pigs. J Food Prot. 1994 Sep;57(9):796-801. [2]. Sheng Y J, et al. Production of chicken yolk IgY to sulfamethazine: comparison with rabbit antiserum IgG. Food and Agricultural Immunology. 2015, 26(3):305-316.

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