Sulfasymazine

Cat. No.: HY-100262

CAS No.: 1984-94-7

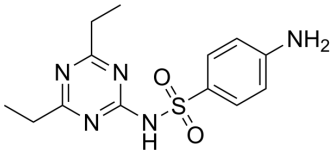
Molecular Formula: $C_{13}H_{17}N_5O_2S$

Molecular Weight: 307.37

Target: Bacterial

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sulfasymazine is a sulfonamide agent and displays antibacterial properties.
IC_{50} & Target	Bacterial[1]
In Vivo	Sulfasymazine is a sulfonamide drug and displays antibacterial properties. On a dosage basis, Sulfasymazine is from 2 to 10 times more potent than sulfisoxazole; on a blood level basis, Sulfasymazine potency ranges from 0.3 to 1. In acute toxicity studies in mice, the sodium salt of Sulfasymazine is tolerated at 2000 mg/kg orally, and at 1000 mg/kg intraperitoneally[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [1]	Carworth Farms CF-1 mice, 4 to 6 weeks of age, weighing 19 to 22 g are used in this study. The mice are infected by intraperitoneal injection of the several bacteria strains. Sulfasymazine is administered either in the diet or in a single dose by gavage. With the drug-diet method, each group of 10 mice is permitted to feed at will from 1 day before infection to 6 days after infection from a common hopper containing Sulfasymazine uniformly mixed with ground Wayne Mouse Blox. The mice are kept under conditions of alternating 3 h periods of light and dark, in order to encourage eating at more or less regular intervals throughout each 24-h period. Drug intakes, as mg per kg of body weight per day, are determined by calculations based on the initial average weight of the mice, the total diet consumed during the treatment period, and the concentration of drug in the diet[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Redin GS, et al. An evaluation of sulfasymazine in infections in mice. Chemotherapy. 1966;11(6):309-14.

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

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