

Sulfathiazole

Catalog No: tcsc2708



Available Sizes

Size: 1g



Specifications

CAS No:

72-14-0

Formula:

$C_9H_9N_3O_2S_2$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

255.32

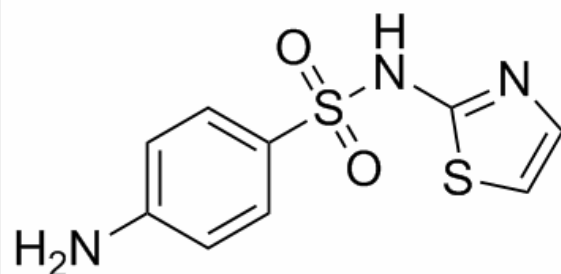
Product Description

Sulfathiazole is an organosulfur compound that has been used as a short-acting sulfa drug.

Target: Antibacterial

Sulfathiazole (20 µg/L) starts to be degraded between day 31 and day 38 in one of the two batch reactors containing different wastewater matrices. Sulfathiazole is degraded at a substantially faster rate than sulfamethoxazole or sulfamethazine in the nitrification process (S3) [1]. Recovery from spiked manure slurry samples is 64% for Sulfathiazole at pH 9. Sulfathiazole has acidity constant of pKa of 7.1 and retention times (tR) of 7.8. S/N values for Sulfathiazole are above 100 at the 1 mg/kg level [2].

Sulfathiazole sorption to inorganic sorbents exhibits pronounced pH dependence consistent with sorbate speciation and sorbent charge properties. Sulfathiazole cations are most important for sorption to clay minerals, followed by neutral species [3].



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