

Sulfamethizole

Catalog No: tcsc2375



Available Sizes

Size: 500mg



Specifications

CAS No:

144-82-1

Formula:

$C_9H_{10}N_4O_2S_2$

Pathway:

Immunology/Inflammation

Target:

PD-1/PD-L1

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

270.33

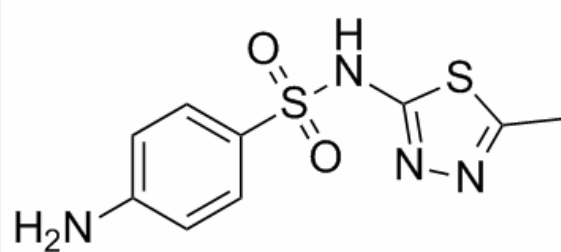
Product Description

Sulfamethizole is a sulfathiazole antibacterial agent.

Target: Antibacterial

Sulfamethizole is a sulfathiazole antibacterial agent. Sulfamethizole is a competitive inhibitor of bacterial para-aminobenzoic acid (PABA), a substrate of the enzyme dihydropteroate synthetase. The inhibited reaction is necessary in these organisms for the synthesis of folic acid. Sulfamethizole, an inhibitor of dihydropteroate synthetase and the formation of folic acid, inhibited bioluminescence more than growth [1]. Treatment with sulfamethizole resulted in a significant reduction in bacterial counts in all

samples from a susceptible strain (MIC, 128 micro g/ml) and a resistant strain (MIC, 512 micro g/ml). Infection with a sulII gene-positive strain (MIC, >2,048 micro g/ml) could not be treated with sulfamethizole, as no effect could be demonstrated in the urine, bladder, or kidneys [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!