Product Data Sheet

Product Name: Pyrimethamine
CAS No.: 58-14-0
Cat. No.: HY-18062
MWt: 248.71
Formula: C12H13ClN4
Purity : >98%

Solubility: DMSO 10 mg/mL; Water <1 mg/mL; Ethanol <1 mg/mL

Mechanisms: Pathways: Cell Cycle/DNA Damage; Target: Antifolate
Pathways: Anti-infection; Target: Antiparasitic

Biological Activity:
Pyrimethamine (RP4753) is a medication used for protozoal infections; interferes with tetrahydrofolic acid synthesis from folic acid by inhibiting the enzyme dihydrofolate reductase (DHFR).

IC50 Value: 15.4 nM (Plasmodium falciparum) [1]
Target: DHFR; antifolate

in vitro: Three susceptibility levels (susceptible, intermediate, and resistant) were observed in the response of culture-adapted clones and strains to pyrimethamine (50% inhibitory concentration [IC50]) < 100, 100-2,000, and > 2,000 nM) and cycloguanil (IC50 < 50, 50-500, and > 500 nM). Based on these susceptibility levels, 73 and 68 of 96 fresh clinical isolates were susceptible to pyrimethamine (mean IC50 15.4 nM) and cycloguanil (mean IC50 11.1 nM), respectively [1]. We tested pyrimethamine (previously reported to suppress SOD1 expression), several compounds currently in trials in human and murine ALS, and a...

References:

Caution: Not fully tested. For research purposes only

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