

Product Data Sheet

Product Name: Sulfadoxine

Cat. No.: GC16950

Chemical Properties

Cas. No. 2447-57-6

Chemical Name 4-amino-N-(5,6-dimethoxypyrimidin-4-yl)benzenesulfonamide

SMILES COC1=C(N=CN=C1OC)NS(=O)(=O)C2=CC=C(C=C2)N

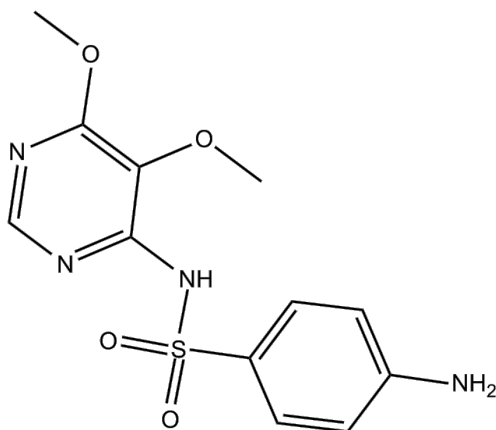
Formula $C_{12}H_{14}N_4O_4S$ M.Wt 310.33378

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 0.3 mg/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

Sulfadoxine (Sulphadoxine) is a long acting sulfonamide that is used, usually in combination with other drugs, for respiratory, urinary tract and malarial infections. Target:

Antiparasitic Sulfadoxine (Sulphadoxine) is an ultra-long-lasting sulfonamide. Sulfadoxine is often used in combination with pyrimethamine to treat or prevent malaria. Both drugs are antifolates; they

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inhibit the production of enzymes involved in the synthesis of folic acid within the parasites. Either drug by itself is only moderately effective in treating malaria, because the parasite *Plasmodium falciparum* may be able to use exogenous folic acid, i.e. folic acid which is present in the parasite's environment, while in combination, the two substances have a synergistic effect which outbalances that ability [1, 2].

References:

[1]. http://www.malaria-ipca.com/sulphadoxine_pyrimethamine.html

[2]. <http://en.wikipedia.org/wiki/Sulfadoxine/pyrimethamine>

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