



LKT Laboratories, Inc.

Sulfadoxine

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## Product Information

**Product ID** S8144

**CAS No.** 2447-57-6

**Chemical Name** 4-Amino-N-(5,6-dimethoxy-4-pyrimidinyl)-benzenesulfonamide

**Synonym** Fanasil, Fanzil, Sulforthomidine

**Formula** C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S

**Formula Wt.** 310.33

**Melting Point** 190-194 °C

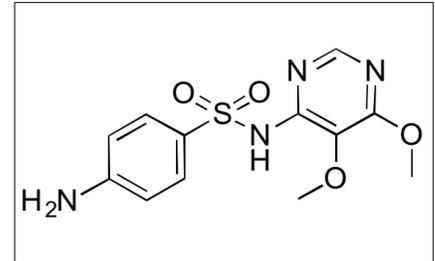
**Purity** ≥98%

**Solubility** Soluble in dilute mineral acids, solutions of alkali hydroxides and carbonates. Slightly soluble in water and methanol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Sulfadoxine is a sulfonamide anti-parasitic that inhibits dihydropteroate synthase, preventing folate synthesis and increases blood oxygen levels. Sulfadoxine exhibits antimalarial activity and is typically given with pyrimethamine.



**Bulk quantities available upon request**

Product ID	Size
S8144	1 g
S8144	10 g
S8144	25 g
S8144	100 g

**References** Combrinck JM, Mabothe TE, Ncokazi KK, et al. Insights into the role of heme in the mechanism of action of antimalarials. ACS Chem Biol. 2013 Jan 18;8(1):133-7. PMID: 23043646.

Abebe W. Therapeutic efficacy of sulfadoxin/pyrimethamine in the treatment of uncomplicated Plasmodium falciparum malaria in Enseno, Meskan Woreda, Gurage zone, SNNPR, Ethiopia. Ethiop Med J. 2006 Apr;44(2):133-8. PMID: 17447375.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.