
Product Data Sheet

Product Name: Trimethoprim N-oxide

Cat. No.: GC61353

Chemical Properties

Cas. No. 27653-68-5

SMILES NC1=NC(N)=C(CC2=CC(OC)=C(OC)C(OC)=C2)C=[N+]1[O-]Formula $C_{14}H_{18}N_4O_4$ M.Wt 306.32

Solubility 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**

Trimethoprim N-oxide (Trimethoprim 1-N-oxide) belongs to human urinary metabolites. Trimethoprim N-oxide is generated by oxidation of nitrogen atoms in the pyrimidine ring. Trimethoprim N-oxide is formed predominantly by CYP1A2 in human liver microsomes[1].

[1]. Goldman JL, et al. In Vitro Hepatic Oxidative Biotransformation of Trimethoprim. Drug Metab Dispos. 2015 Sep;43(9):1372-80.

Caution: Product has not been fully validated for medical applications. For research use only.

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