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**Product Data Sheet**

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Product Name: Trimethoprim 3-oxide

Cat. No.: GC37830

**Chemical Properties**

Cas. No. 27653-67-4

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

Solubility Soluble in DMSO 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 3-oxide (Trimethoprim 3-N-oxide) is the primary metabolite of trimethoprim[1].

Trimethoprim 3-oxide is the primary metabolite of trimethoprim[1]. Trimethoprim 3-oxide (3-NO-TMP) is converted from trimethoprim by CYP1A1 and CYP1B1 with highest rates in human liver microsomes (HLMs). The CYP1A inhibitor  $\alpha$ -Naphthoflavone inhibits Trimethoprim 3-oxide formation, however, other competitive P450 inhibitors has no obvious inhibition on the formation[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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