Trimethoprim 3-oxide

Cat. No.: HY-100645

CAS No.: 27653-67-4

Molecular Formula: $C_{14}H_{18}N_4O_4$

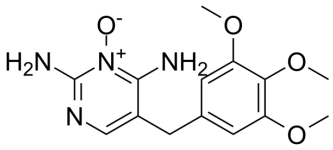
Molecular Weight: 306.32

Target: Drug Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Trimethoprim 3-oxide (Trimethoprim 3-N-oxide) is the primary metabolite of trimethoprim[1].
In Vitro	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 α-Naphthoflavone inhibits Trimethoprim 3-oxide formation, however, other competitive P450 inhibitors has no obvious inhibition on the formation[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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