Screening Libraries

Product Data Sheet

Tetroxoprim

Cat. No.: HY-107033 CAS No.: 53808-87-0 $C_{16}H_{22}N_4O_4$ Molecular Formula: Molecular Weight: 334.37 Antifolate Target:

Pathway: Cell Cycle/DNA Damage

Storage: 4°C, protect from light, stored under nitrogen

* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)

$$0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0$$

$$0 \longrightarrow$$

SOLVENT & SOLUBILITY

In Vitro

DMSO: 16.67 mg/mL (49.85 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.9907 mL	14.9535 mL	29.9070 mL
	5 mM	0.5981 mL	2.9907 mL	5.9814 mL
	10 mM	0.2991 mL	1.4953 mL	2.9907 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (4.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Tetroxoprim is an antimicrobial DHFR inhibitor $^{[1]}$.
In Vitro	Tetroxoprim brings about a 50% in vitro inhibition with E. coli, at a concentration of $4 \times 10^{-9} M^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

1]. H S Aschhoff, et al. Tetroxop	prima new inhibitor of bacterial dihydrofolate reductase. J Antimicrob Chemother. 1979 Nov;5(B):19-25.	
	Caution: Product has not been fully validated for medical applications. For research use only.	
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