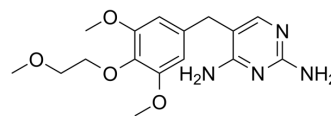


Tetroxoprim

Cat. No.:	HY-107033
CAS No.:	53808-87-0
Molecular Formula:	C ₁₆ H ₂₂ N ₄ O ₄
Molecular Weight:	334.37
Target:	Antifolate
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)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (49.85 mM); ultrasonic and warming and heat to 60°C																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.9907 mL</td> <td>14.9535 mL</td> <td>29.9070 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5981 mL</td> <td>2.9907 mL</td> <td>5.9814 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2991 mL</td> <td>1.4953 mL</td> <td>2.9907 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	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
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> 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 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 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 x 10 ⁻⁹ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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