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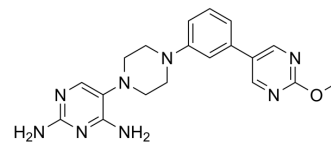
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Fanotaprim

Cat. No.:	HY-137439
CAS No.:	2120282-75-7
Molecular Formula:	C ₁₉ H ₂₂ N ₈ O
Molecular Weight:	378.43
Target:	Antifolate
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (88.07 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.6425 mL	13.2125 mL	26.4250 mL
		5 mM	0.5285 mL	2.6425 mL	5.2850 mL
		10 mM	0.2642 mL	1.3212 mL	2.6425 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: ≥ 2.08 mg/mL (5.50 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.50 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Fanotaprim is a dihydrofolate reductase (DHFR) inhibitor with IC ₅₀ s of 1.57 and 308 nM for tgDHFR (Toxoplasma gondii DHFR) and hDHFR (human DHFR), respectively. Fanotaprim has the potential for the research of toxoplasmosis ^[1] .
In Vitro	Fanotaprim shows parasitocidal and antiproliferative effects with EC ₅₀ s of 13 and 7300 nM against the type I RH strain of T. gondii and MCF-7 cells, respectively ^[1] . Fanotaprim shows ability to inhibit the growth of T. gondii strains in vitro with EC ₅₀ s ranging 7.6~ 29.8 nM (GT1, ME49, CTG, RUB and VAND) ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fanotaprim (1-10 mg/kg; p.o.; daily; beginning on day 1 through day 7) shows highly effective in control of acute infection by highly virulent strains of *T. gondii* in the murine model^[1].

Fanotaprim (1mg/kg; i.v; mouse) shows C_L , V_d , and $t_{1/2}$ values of 10.6 mL/min/kg, 1.14 L/kg, and 3.9 hours, respectively^[1].

Fanotaprim (0.83 mg/kg; p.o; mouse) shows F , C_{max} , T_{max} , and AUC_{0-last} of 47.3%, 178 ng/mL, 0.05 hours and 750 ng h/mL, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	CD-1female mice (murine model of acute toxoplasmosis) ^[1]
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Dosage:	1-10 mg/kg
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Administration:	p.o.; daily; beginning on day 1 through day 7
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Result:	Mice were monitored for survival for 30 days within termittent IVIS monitoring. At doses of 10 mg/kg Fanotaprim, q.d. or b.i.d. for 7 days, yielded 100% survival for 30 days.
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REFERENCES

[1]. Hopper AT, et al. Discovery of Selective *Toxoplasma gondii* Dihydrofolate Reductase Inhibitors for the Treatment of Toxoplasmosis. *J Med Chem.* 2019;62(3):1562-1576.

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

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