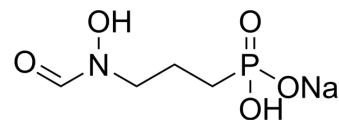


Fosmidomycin sodium salt

Cat. No.:	HY-112853
CAS No.:	66508-37-0
Molecular Formula:	C ₄ H ₉ NNaO ₅ P
Molecular Weight:	205.08
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (121.90 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.8761 mL	24.3807 mL	48.7615 mL
		5 mM	0.9752 mL	4.8761 mL	9.7523 mL
		10 mM	0.4876 mL	2.4381 mL	4.8761 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (487.61 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Fosmidomycin sodium salt is a phosphonic acid antibiotic and a antimalarial agent, which is active against both Gram-negative and Gram-positive bacteria.
In Vitro	Fosmidomycin sodium salt is a phosphonic acid antibiotic ^{[1][2]} , which is active against both Gram-negative and Gram-positive bacteria ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Animals treated intraperitoneally with dosages of >10 mg/kg of fosmidomycin are apparently free of parasites. After treatment with 5 mg/kg of fosmidomycin, parasitemias are <1%. Animals treated orally with 50 or 100 mg/kg of fosmidomycin are apparently free of parasites, and parasitemias are <1% after treatment with 20 mg/kg of drug. Recrudescence is observed when the treatment is terminated after 4 days. Mice treated with 30 mg/kg of fosmidomycin over a period of 8 days are totally cured ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Kojo H, et al. FR-31564, a new phosphonic acid antibiotic: bacterial resistance and membrane permeability. *J Antibiot (Tokyo)*. 1980 Jan;33(1):44-8.
- [2]. Fernandes JF, et al. Fosmidomycin as an antimalarial drug: a meta-analysis of clinical trials. *Future Microbiol*. 2015;10(8):1375-90.
- [3]. Jomaa H, et al. Inhibitors of the nonmevalonate pathway of isoprenoid biosynthesis as antimalarial drugs. *Science*. 1999 Sep 3;285(5433):1573-6.
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Caution: Product has not been fully validated for medical applications. For research use only.

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