

Product Datasheet

Fosmidomycin sodium

Catalog No. **BP-02429** · CAS **66508-37-0** · Form **free base** · Physical state **solid** · Color **White to light brown** · Version **1.0** · Revision **2026-09-11**

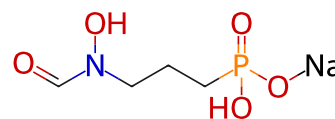
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Target Bacterial; Antibiotic	Research area Infection
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Molecular formula **C₄H₉NNaO₅P**

Molecular weight **205.0815**

STRUCTURE



DESCRIPTION

Fosmidomycin sodium salt is a phosphonic acid antibiotic and a antimalarial agent, which is active against both Gram-negative and Gram-positive bacteria.

BIOLOGICAL ACTIVITY

In Vitro

Fosmidomycin sodium salt is a phosphonic acid antibiotic[1][2], which is active against both Gram-negative and Gram-positive bacteria.

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.

SOLUBILITY

Soluble in H₂O : 25 mg/mL

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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