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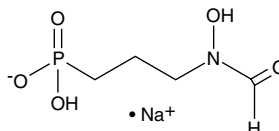
Product Information



Fosmidomycin (sodium salt)

Item No. 16000

CAS Registry No.: 66508-37-0
Formal Name: P-[3-(formylhydroxyamino)propyl]-phosphonic acid, monosodium salt
Synonyms: Antibiotic FR31564, FR31564
MF: C₄H₉NO₅P • Na
FW: 205.1
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that fosmidomycin (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

Fosmidomycin (sodium salt) is supplied as a crystalline solid. Fosmidomycin (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of fosmidomycin (sodium salt) be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of fosmidomycin (sodium salt) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Fosmidomycin is an antibiotic originally isolated from culture broths of bacteria of the genus *Streptomyces* that inhibits DOXP reductoisomerase, a key enzyme in the non-mevalonate pathway of isoprenoid biosynthesis.¹ Fosmidomycin is active against both Gram-negative and Gram-positive bacteria and the human malarial parasite *P. falciparum* (IC₅₀ = 290-370 nM).²

References

1. Hunter, W.N. Isoprenoid precursor biosynthesis offers potential targets for drug discovery against diseases caused by apicomplexan parasites. *Curr. Top. Med. Chem.* **11(16)**, 2048-2059 (2011).
2. Jomaa, H., Wiener, J., Sanderbrand, S., *et al.* Inhibitors of the nonmevalonate pathway of isoprenoid biosynthesis as antimalarial drugs. *Science* **285(5433)**, 1573-1576 (1999).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16000

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