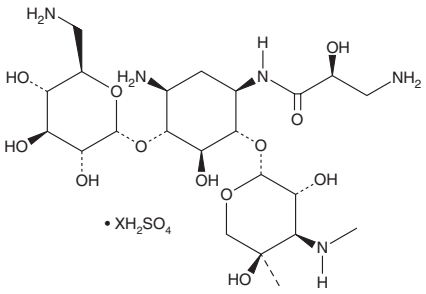
PRODUCT INFORMATION

Isepamicin (sulfate)

Item No. 46262

CAS Registry No.: 67814-76-0
Formal Name: O-6-amino-6-deoxy-α-D-glucopyranosyl-(1→4)-O-[3-deoxy-4-C-methyl-3-(methylamino)-β-L-arabinopyranosyl-(1→6)]-N^1-[(2S)-3-amino-2-hydroxy-1-oxopropyl]-2-deoxy-D-streptamine, sulfate
Synonym: Sch 21420 (sulfate)
MF: $C_{22}H_{43}N_5O_{12} \bullet XH_2SO_4$
FW: 569.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Isepamicin (sulfate) is sparingly soluble (1-10 mg/ml) in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Isepamicin is an aminoglycoside antibiotic.[1] It is active against 419 clinical isolates of Enterobacteriaceae species, including *E. coli*, *K. pneumoniae*, and *S. marcescens* (MICs = 0.25-<128 mg/L for all).[2] Isepamicin (7 mg/kg) has bactericidal activity in a neutropenic mouse model of *S. aureus* infection with a post-antibiotic effect (PAE) lasting approximately five hours.[1]

References

1. Minguez Minguez, F., Izquierdo Izquierdo, J., Caminero, M.M., *et al.* In vivo postantibiotic effect of isepamicin and other aminoglycosides in a thigh infection model in neutropenic mice. *Chemotherapy* **38(3)**, 179-184 (1992).
2. Cheng, N.-C., Hsueh, P.-R., Liu, Y.-C., *et al.* In vitro activities of tigecycline, ertapenem, isepamicin, and other antimicrobial agents against clinically isolated organisms in Taiwan. *Microb. Drug Resist.* **11(4)**, 330-341 (2005).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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