

Product Information

Isepamicin, Purity $\geq 98\%$

Cat. No.: X24-09-YM1109

Size: 50 mg; 100 mg; 200 mg; 500 mg

CAS Number: 58152-03-7

Compound CID: 3037209

Synonym: 58152-03-7; Isepamicine; Sch 21420; isepamicin sulfate; HAPA-gentamycin B; Sch-21420; Isepamicinsulphate; Isepacin;

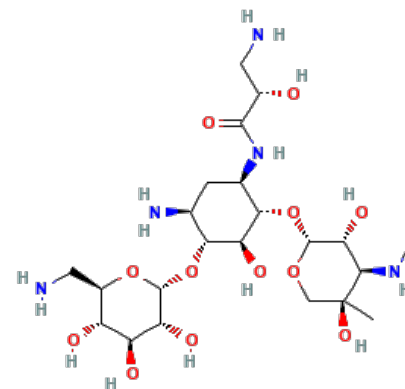
(2S)-3-Amino-N-[(1R,2S,3S,4R,5S)-5-amino-4-[(2R,3R,4S,5S,6R

)-6-(aminomethyl)-3,4,5-trihydrox

yoxan-2-yl]oxy-2-[(2R,3R,4R,5R

)-3,5-dihydroxy-5-methyl-4-(methylamino)oxan-2-yl]oxy-3-hydroxycyclohexyl]-2-hydro

xypropanamide



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Isepamicin is an aminoglycoside antibiotic. The molecular weight of the compound is 569.6, and its molecular formula is $C_{22}H_{43}N_5O_{12}$.
Molecular Weight	569.6
Molecular Formula	$C_{22}H_{43}N_5O_{12}$
IUPAC Name	(2S)-3-Amino-N-[(1R,2S,3S,4R,5S)-5-amino-4-[(2R,3R,4S,5S,6R)-6-(aminomethyl)-3,4,5-trihydroxyoxan-2-yl]oxy-2-[(2R,3R,4R,5R)-3,5-dihydroxy-5-methyl-4-(methylamino)oxan-2-yl]oxy-3-hydroxycyclohexyl]-2-hydroxypropanamide
InChI	InChI=1S/C22H43N5O12/c1-22(35)6-36-20(15(33)18(22)26-2)39-17-8(27-19(34)9(28)4-23)3-7(25)16(14(17)32)38-21-13(31)12(30)11(29)10(5-24)37-21/h7-18,20-21,26,28-33,35H,3-6,23-25H2,1-2H3,(H,27,34)/t7-,8+,9-,10+,11+,12-,13+,14-,15+,16+,17-,18+,20+,21+,22-/m0/s1
InChI Key	UDIIBEDMEYAVNG-ZKFPOVNWSA-N
Canonical SMILES	CC1(COC(C(C1NC)O)OC2C(CC(C(C2O)OC3C(C(C(C(O3)CN)O)O)O)N)NC(=O)C(CN)O)O
Isomeric SMILES	C1=CC(=C(C=C1[C@H](CN)O)O)O.[C@@H]([C@H](C(=O)O)O)(C(=O)O)O.O
Form	Lyophilized powder
Purity	$\geq 98\%$



Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Isepamicin can be studied extensively for its potential therapeutic applications in the treatment of Gram-negative bacterial infections.
Storage	Store at -20°C, and keep desiccated.
