



Product Information

Antifection inhibitor Kitasamycin, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ089

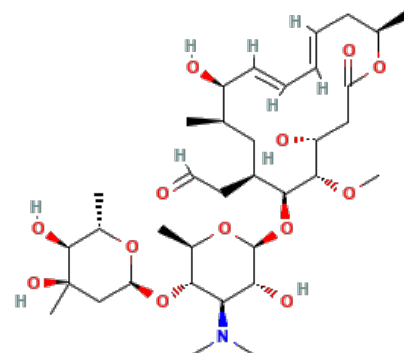
Size: 100 mg; 500 mg

CAS Number: 1392-21-8

Compound CID: 5282189

Synonym: 1392-21-8; Antifection inhibitor; Turimycin; Kitasamycin; Leucomycin V; Selectomycin

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



Product Information

Description	Kitasamycin, soluble in DMSO and ethanol and insoluble in water, has strong immunosuppressant properties. It targets Macrolide.
Molecular Weight	701.85
Molecular Formula	C ₃₅ H ₅₉ NO ₁₃
Targets	Macrolide
IUPAC Name	2-[(4R,5S,6S,7R,9R,10R,11E,13E,16R)-6-[(2S,3R,4R,5S,6R)-5-[(2S,4R,5S,6S)-4,5-dihydroxy-4,6-dimethyloxan-2-yl]oxy-4-(dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-4,10-dihydroxy-5-methoxy-9,16-dimethyl-2-oxo-1-oxacyclohexadeca-11,13-dien-7-yl]acetaldehyde
InChI	InChI=1S/C35H59NO13/c1-19-16-23(14-15-37)31(32(44-8)25(39)17-26(40)45-20(2)12-10-9-11-13-24(19)38)49-34-29(41)28(36(6)7)30(21(3)47-34)48-27-18-35(5,43)33(42)22(4)46-27/h9-11,13,15,19-25,27-34,38-39,41-43H,12,14,16-18H2,1-8H3/b10-9+,13-11+/t19-,20-,21-,22+,23+,24+,25-,27+,28-,29-,30-,31+,32+,33+,34+,35-/m1/s1
InChI Key	XYJOGTQLTFNMQG-KJHBSLKPSA-N
Canonical SMILES	CC1CC=CC=CC(C(CC(C(C(C(C(=O)O1)O)OC)OC2C(C(C(C(O2)C)OC3CC(C(C(O3)C)O)(C)O)N(C)C)O)CC=O)C)O
Isomeric SMILES	C[C@@H]1C/C=C/C=C/[C@@H]([C@@H](C[C@@H]([C@@H]([C@H]([C@@H](CC(=O)O1)O)O)C)O[C@H]2[C@@H]([C@H]([C@@H]([C@H](O2)C)O[C@H]3C[C@@]([C@H]([C@@H](O3)C)O)(C)O)N(C)C)O)CC=O)C)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 91 mg/mL (115.78 mM); Water: Insoluble; Ethanol: 91 mg/mL



Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Kitasamycin is used to investigate and inhibit bacterial protein synthesis, functioning as an antibacterial agent by interfering with the growth and reproduction of bacteria.
Storage	Store at -20°C, and keep desiccated.
