Kijanimicin
Item No. 20586

CAS Registry No.: 78798-08-0
Formal Name: 4-[(O-2,6-dideoxy-α-L-ribo-hexopyranosyl-(1→3)-O-[2,6-dideoxy-4-O-methyl-β-L-ribo-hexopyranosyl-(1→4)]-O-2,6-dideoxy-α-L-ribo-hexopyranosyl-(1→3)-2,6-dideoxy-α-L-ribo-hexopyranosyl)oxy]-2,3S,4S,4aS,6aS,9,10S,12aS,15R,16,20a,20bR-dodecahydro-21-hydroxy-14-(hydroxymethyl)-15S,3,7E,11E,15,20a-hexamethyl-10-[(2,3,4,6-tetrahydroxy-4-[(methoxycarbonyl)amino]-3-C-methyl-3-nitro-β-D-xylo-hexopyranosyl)oxy]-18H-16aS,19-Metheno-16aH-benzo[b]napth[2,1-j]oxacyclotetradecin-18,20(1H)-dione

Synonym: NSC 329515
MF: C_{67}H_{100}N_2O_{24}
FW: 1,317.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Kijanimicin is supplied as a solid. A stock solution may be made by dissolving the kijanimicin in the solvent of choice, which should be purged with an inert gas. Kijanimicin is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Kijanimicin is an antibiotic first isolated from the fermentation broth of *A. kijaniata* SCC 1256.¹ It is active against a broad spectrum of microorganisms in vitro including *P. acnes* (MIC = 0.86 µg/ml), *B. subtilis* (MIC < 0.13 µg/ml), *Enterobacter* sp. (MIC = 64 µg/ml), *Trichophyton* sp. (MIC = 17.5 µg/ml), and *Microsporum* sp. (MIC = 17.5 µg/ml).¹ At 250 mg/kg, kijanimicin was also shown to be effective in mice against *P. berghei*, a protozoan parasite that causes malaria in certain rodents.¹

Reference