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WO 01/02414 A1

(54) Title: DIPHOSPHATE SALT OF A 4''-SUBSTITUTED-9-DEOXO-9A-AZA-9A-HOMOERYTHROMYCIN DERIVATIVE AND ITS PHARMACEUTICAL COMPOSITION

(57) Abstract: This invention relates to a novel crystalline diphosphate salt of (2*R*,3*S*,4*R*,5*R*,8*R*,10*R*,11*R*,12*S*,13*S*,14*R*) -13-[[2,6-dideoxy-3-*C*-methyl- 3-*O*-methyl- 4-*C*- [(propylamino)methyl] -α-L-*ribo*-hexopryanosyl] oxy] -2-ethyl-3,4,10- trihydroxy-3,5,8,10,12,14- hexamethyl-11- [[3,4,6- trideoxy-3- (dimethylamino) -*b*-D-*xylo*-hexopyranosyl] oxy]-1-oxa-6-azacyclopentadecan-15-one that is useful as an antibacterial and antiprotozoal agent in mammals. This invention also relates to pharmaceutical compositions containing the free base of the diphosphate salt and the methods of treating bacterial and protozoal infections in mammals by administering the free base of the diphosphate to mammals requiring such treatment. The free base of the diphosphate salt of the present invention possesses potent activity against various bacterial and protozoal infections when given by parenteral application to mammals.