

论文
合霉素及其前体消旋-反式-1-对硝基苯-2-氨基-1,3-丙二醇的拆开

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摘要:

合霉素(消旋-I_a)可利用由D(-)-扁桃酸制成的α-乙酰氧基苯乙酰氯作为拆开剂拆开.L(+)-I_a的D(-)-α-乙酰氧基苯乙酸酯在乙醇中首先析出.合霉素前体(消旋-II)于应用(+)-酒石酸单甲酯为拆开剂时,获得L(+)-II的酒石酸单甲酯盐,从母液中分得不纯的D(-)-II.

关键词:

RESOLUTION OF SYNTHOMYCIN AND RACEMIC *THREO*-1-*p*-NITROPHENYL-2-AMINO-PROPANE-1,3-DIOL

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Abstract:

Resolution of synthomycin (racemic-I_a) via its esters has been described. Racemic- I_a was dissolved in anhydrous pyridine and treated with D (-) -acetylmandelyl chloride. D (-) -Acetylmandelate of L(+)-I_a was separated by fractional crystallization from 95% ethyl alcohol. The ester was shown to be identical in melting point and specific rotation to a sample prepared from L-(+)-I_a of known purity and D (-) -acetylmandelyl chloride. L(+)-I_a of good quality was obtained by mild alkaline treatment of the ester. On the other hand, racemic *threo*-1-*p*-nitrophenyl-2-amino-1,3-propanediol (racemic-II) was re- solved with methyl hydrogen (+) -tartrate. The salt of L(+)-II was less soluble in 95% ethyl alcohol, from which optically pure L(+)-II was isolated; while only impure samples containing D(-)-II could be recovered from the mother liquor.

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