

论文

左旋氧氟沙星类似物的合成及其抗菌抗肿瘤活性研究

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摘要:

目的: 设计合成有抗菌抗肿瘤活性的喹诺酮药物。方法和结果: 根据推理药物设计原理, 设计并合成了16个新型抗菌抗肿瘤喹诺酮类化合物, 并研究其构效关系。结论: 用9株细菌及4株肿瘤细胞评价了它们的体外抗菌活性(MIC值)及抗肿瘤活性(抑瘤率%)。其中, 化合物16~20有较好的抗肿瘤及抗菌活性。

关键词: 抗肿瘤喹诺酮 左旋氧氟沙星 合成 抗肿瘤活性 抗菌活性

STUDIES ON SYNTHESIS ANTIBACTERIAL AND ANTITUMOR ACTIVITY OF (S)-(-)-OFLOXACIN ANALOGUES

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Abstract:

AIM: To design and prepare quinolone compounds with antibacterial and antitumor activities. METHODS AND RESULTS: According to rational drug design principle, a series of novel analogues of (S)-(-)-ofloxacin has been prepared and the influences on structure-activity relationships was also discussed. CONCLUSION: Their in vitro antitumor and antibacterial activities were evaluated. The results showed that compound 16~20 have good antitumor and antibacterial activities.

Keywords: (S)-(-)-ofloxacin synthesis antitumor activity antibacterial activity antitumor quinolone

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