

论文

2,4-二氨基-5-取代苯胺基嘧啶类化合物的合成及抗菌活性

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摘要:

关键词: 2,4-二氨基-5-取代苯胺基嘧啶

SYNTHESIS AND ANTI BACTERIAL ACTIVITY OF 2,4-DIAMINO-5-(SUBSTITUTED ANILINO) PYRIMIDINES

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Abstract:

On the basis of bio-isosteric principle, 10 compounds of the 2,4-diamino-5-(substituted anilino) pyrimidines were synthesized by condensation of 5-bromouracil with corresponding substituted anilines, followed by chlorination with POCl<sub>3</sub> and amination under high pressure. The antibacterial activities of these compounds on E. coli 1515 were also reported. Compounds 111<sub>6</sub> (x=3-OC<sub>4</sub>H<sub>9</sub>-n) and 111<sub>7</sub> (x=2,4-(CH<sub>3</sub>)<sub>2</sub>) showed a fair antibacterial activity. Their activities probably depend on the hydrophobicity of pyrimidine compounds. Further studies are in progress.

Keywords: 2,4-Diamino-5-(substituted anilio) pyrimidines

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