

Synthesis and Antimicrobial Activity of Novel N^3, N^5 -Bis[1-({1-[2-((*E*)-benzylidene)hydrazinyl]-1-oxo-3-phenylpropan-2-yl}amino)-3-methyl-1-oxobutan-2-yl]- pyridine-3,5-dicarboxamides

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Abstract—A series of some chiral new 3,5-pyrido-bis(dipeptide Schiff base) derivatives has been synthesized. Reaction of 3,5-dinicotinoylbis-(dipeptidocarboxylic acid) with L-phenylalanine methyl ester has led to the corresponding methyl ester, which upon treatment with hydrazine hydrate has led to the corresponding acid hydrazide. Reaction of the latter intermediate with different aldehydes has resulted in formation of the corresponding Schiff base derivatives. All the synthesized derivatives have been tested for antimicrobial activity.

Keywords: chiral, peptides, Schiff base, antimicrobial activity

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