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Synthesis of some new biheterocyclic triazole derivatives and evaluation of their antimicrobial activity

Synthesis of some new biheterocyclic triazole derivatives and evaluation of their antimicrobial activity



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Abstract: 2-{3-(4-Substitutedbenzyl)-4-[2-(1H-indol-3-yl)ethyl]-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl}-N'-(aryl-methylene) acetohydrazides (5a-g), 4-amino-2-{(4-substitutedbenzyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl}-N'-(arylmethylene) acetohydrazides (6a,b), and 4-[2-(1H-indol-3-yl)ethyl]-5-(4-substitutedbenzyl)-2-{5-(phenylamino)-1,3,4-thiadiazol-2-yl]methyl}-2,4-dihydro-3H-1,2,4-triazol-3-ones (8a,b) were synthesized starting from 4-alkyl-5-(4-substitutedbenzyl)-2,4-dihydro-3H-1,2,4-triazol-3-ones (2a-c) by several steps and their structures were well characterized by