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Synthesis of fluorinated pyrazolines as an anti-inflammatory agents containing pyrazole moiety

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Abstract : In the present work, seven novel 2-(5-(3-(2,4-difluorophenyl)-1-(4-fluorophenyl)-1H-pyrazol-4-yl)-4,5-dihydro-1H-pyrazol-3-yl)phenol 2(a-g) were synthesized by cyclization between substituted chalcones and hydrazine hydrate in the presence of glacial acetic acid under reflux condition. The structures of the synthesized compounds were characterized on the basis of IR, ¹HNMR and Mass spectral data. All the synthesized compounds are screened for their anti-inflammatory activity by paw oedema method. Diclofenac employed as a reference standard. From the results it is concluded that, compounds 2b-2f exhibited moderate anti-inflammatory activity.

Keywords: Pyrazolines, antimicrobial activity, ulcerogenic activity.

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