

Turkish Journal of Chemistry

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Synthesis of the Amide Derivatives of 3-[1-(3-Pyridazinyl)-5-phenyl-1H-pyrazole-3-yl]propanoic Acids as Potential Analgesic Compounds

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Abstract: A series of structurally diverse amide derivatives of 3-[1-(3-pyridazinyl)-5-phenyl-1H-pyrazole-3-yl]propanoic acids were prepared and tested for their in vivo analgesic activity using an acetic acid induced writhing test. All the test compounds displayed approximately equipotent analgesic activity to aspirin. The results showed that the analgesic activity of 5a, 5f, 5n, and 5o is significantly higher than that of 5d.

Key Words: Pyridazine, pyrazole, analgesic, writhing

Turk. J. Chem., **31**, (2007), 677-687.

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