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Synthesis and Analgesic and Anti-Inflammatory Activity of New Pyridazinones

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Abstract: A new series of 2-(6-oxo-3,5-diphenyl-6H-pyridazin-1-yl)-acetamides and 3-[6-oxo-3,5-diphenyl-6H-pyridazin-1-yl]-propanamides were synthesized and evaluated in terms of their analgesic and anti-inflammatory activities. All compounds except for 7g were more potent than aspirin in a p-benzoquinone--induced writhing test at 100 mg/kg dose. Compounds 7b, 7c and 7e had the highest anti-inflammatory activity; compound 7e was the most potent in terms of analgesic and anti-inflammatory activities and had no ulcerogenic side effects.

Key Words: 6-Oxo-3,5-diphenylpyridazine, synthesis, spectral analysis, analgesic, anti-inflammatory

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