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Microwave assisted solvent free synthesis and antifungal evaluation of 3, 5-bis-(4-hydroxy-3-methoxybenzylidene)-N-phenylpiperidine-2, 6-dione derived from N-phenyl glutarimides

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Abstract: An efficient microwave supported solvent free synthesis of 3,5-bis-(4-hydroxy-3-methoxybenzylidene-N-phenylpiperidine-2,6-dione) described with the subsequent condensation of N-phenyl glutarimides with 4-hydroxy-3-methoxy-benzaldehyde in presence neutral alumina. The afforded compounds exhibited good and remarkable antifungal activities.

Keywords: Bis-chalcones, N-phenyl glutarimides, antifungal actions.

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