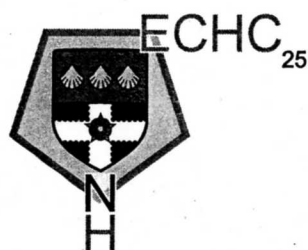


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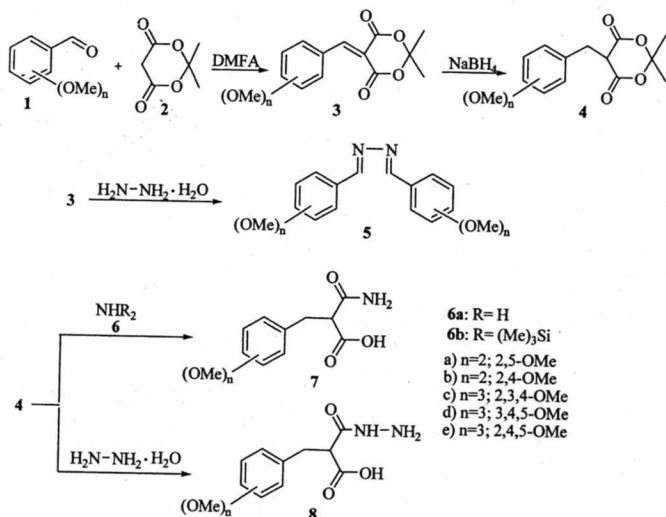
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SYNTHESIS OF HYDRAZINE AND AMIDE DERIVATIVES FROM METHOXYBENZYLISOPROPYLIDENE MALONATES

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The methoxyphenyl moiety is a structural element of a number of medicaments that are used as cardiovascular stimulators [1,2] and neurotrophical agents [3]. As starting materials for the synthesis of novel compounds containing the above mentioned fragment serve methoxybenzylidene (3) and methoxybenzyl (4) derivatives of 2,2-dimethyl-1,3-dioxane-4,6-dione (isopropylidene malonate, Meldrum's acid) (2) with methoxysubstituted benzaldehydes (1) gives compounds 3. The reduction of compounds 3 was carried out with sodium borohydride in methanol at room temperature. Taking into account that nucleophilic reagents effect the cleavage of 1,3-dioxane ring in isopropylidene malonates [4-6], compounds 3 and 4 were allowed to react with potassium hydroxide in methanol, with ammonia, HMDS and hydrazine hydrate. (1*E*,2*E*)-1,2-Bis(methoxybenzylidene)hydrazines (5), monoamides (7) and monohydrazides of methoxybenzylmalonic acid (8) are obtained in good to excellent yields. These compounds are useful building blocks for synthesis of different structures.



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