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Synthesis of 2,4-Disubstituted 8-aza-bicyclo[3,2,1]octan-3-one ethylene ketal derivatives

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Nortropinone derivatives have been known activity of anticonvulsant. For synthesis of new anticonvulsant, 2,4-disubstituted nortropinone derivatives were synthesized by reaction of N-substituted nortropinones, ethanol, 5N-NaOH and aromatic aldehydes(R_1CHO). But, 2,4-disubstituted nortropinone derivatives were indicated low biological activity. In order to synthesize potent anticonvulsant 2,4-disubstituted 8-aza-bicyclo [3,2,1] octan-3-one ethylene ketal(2,4-bis-(4-methoxy-benzylidene)-8-methyl-8-aza-bicyclo [3,2,1]octan-3-one ethylene ketal, 2,4-dibenzyl-idene-8-phenyl-aza-bicyclo[3,2,1] octan-3-one ethylene ketal and 2,4-dibenzylidene-8-(4-methoxy-phenyl)-8-aza-bicyclo-[3,2,1]octan-3-one ethylene ketal) were synthesized by treatment of *p*-toluene sulfonic acid, diethylene glycol and corresponding 2,4-disubstituted 8-aza-bicyclo[3,2,1] octan-3-one.

We will try to synthesize various anticonvulsant anticipated good activity and to evaluate anticonvulsant.