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Synthesis of (2E, 4E)-disubstituted bicyclo[3.2.1]octane and nortropane spirohydantoin derivatives.

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A series of tropane and nortropane 3-spiro-5'-hydantoins showed anticonvulsant activity against pentylenetetrazol-induced convulsions in mice and antiarrhythmic activity in rabbits previously treated with ouabain.

As a part of our study on the improvement of anticonvulsant, here we report the synthesis of nortropinones, nortropane spirohydantoins, (2E, 4E)-2,4-disubstituted 8-aza-bicyclo[3,2,1] octane-3-ones and (2E, 4E)-2,4-disubstituted 8-aza-bicyclo[3,2,1] octane-3-one spirohydantoins.

The aldol condensation of nortropinone provided only (2E, 4E)-disubstituted nortropinone.

