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## Synthesis and anticonvulsant screening of 1,2,4-triazole derivatives

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### Abstract

#### Background

Currently available antiepileptic drugs offer limited symptomatic treatment and fail to cure more than 30% of the epileptic seizures. (Arylalkyl)azoles are a class of anticonvulsants including nafimidone and loreclezole. Here, we report the design and synthesis of new (arylalkyl)azoles in *N*-[1-(4-chlorophenyl)-2-(1*H*-1,2,4-triazol-1-yl)ethylidene]hydroxylamine ester structure, their anticonvulsant screening and *in silico* prediction studies of their pharmacokinetic properties.

#### Methods

The title compounds were synthesized according to the Steglich esterification of *N*-[1-(4-chlorophenyl)-2-(1*H*-1,2,4-triazol-1-yl)ethylidene]hydroxylamine with various

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