

PL17. PHARMACOLOGY OF 1,2,3,4-TETRAHYDROISOQUINOLINES

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The 1,2,3,4-tetrahydroisoquinoline (THIQ) derivatives have been reported to possess a wide range of pharmacological activities like anti-inflammatory, antibacterial, antiviral, antifungal, antileishmanial, anticancer, antimalarial, antialzheimer, antiparkinson, antidepressant, anticonvulsant, antiarrhythmic, hypotensive and hypertensive, and inhibition NO production.

We have investigated 1-aryl-1,2,3,4-THIQ derivatives synthesized at the Alkaloids Laboratory of Institute of the Chemistry of Plant Substances, Uzbekistan. Among 32 studied substances we have identified potent substances with local anesthetic, analgesic, anti-inflammatory, antiarrhythmic, psychotropic, antihypoxic, antioxidant and anticonvulsant activity. Structure-toxicity and structure- activity relations were analysed and discussed.

Keywords: Tetrahydroisoquinoline; structure; activity