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[Research of anti-inflammatory activity of the thiosemicarbaziden-morpholinilacetic acid].

Автор: Bakirova, R; Fasylov, S; Nurkenov, O; Muravyova, L; Gakupova, A

Georgian medical news

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Аннотация

Studying of synthesis and anti-inflammatory activity of a number of new derivatives of N-acylsubstituted of thiosemicarbazide and product of their heterocyclization (thiadiazole). In work the following reagents are used: hydrazide of N-morpholinilacetic acids, allil-, benzoil-, 4-brom-benzoil isothiocyanates. IR spectrums of compounds are removed on a spectrometer from Fourier converter by "AVATAR-320" in tablets with KBr, 1H NMR spectra were recorded on Bruker DRX500 spectrometer with a frequency of 500 MHz in DMSO-d6 solution relative to internal tetramethylsilane standard. X-ray diffraction analysis was carried out on four circuitous automatic diffractometer "Xcalibur". Mass spectra were recorded on a device FINNIGAN MAT.INCOS 50 direct input material with an ionization energy of 70 eV. Thin-layer chromatographic (TLC) analysis was performed on plates Sorbfil system benzene-isopropanol-ammonia 10:5:2, display iodine vapor. Melting point defined on the device Boetius. Anti-inflammatory activity of compounds is studied on white not purebred rats. Statistical processing of results was carried out with use of the software package of "Statistica 6,0". The experimental results showed that, among the received new hydrazide derivatives of N-morpholinilacetic acids are compounds (II-IV and VI), which have anti-inflammatory activity. It is possible that novel anti-inflammatory properties associated with their antibacterial properties due to the presence in their chemical structure and thiosemicarbazides 1,3,4-thiadiazol-2 (3H)-thione fragments. The obtained results allow us to recommend the test compounds for advanced pre-clinical trials to study their properties. Based on N-hydrazide morpholinilacetic acid, a number of new N-acyl-substituted derivatives of thiosemicarbazide is synthesized and described, composition and structure of which is proved by IR, 1H NMR spectroscopy and X-ray analysis. In an experimentation rats is founded anti-inflammatory activity of N-acyl-substituted thiosemicarbazide.

Информация об авторе

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