

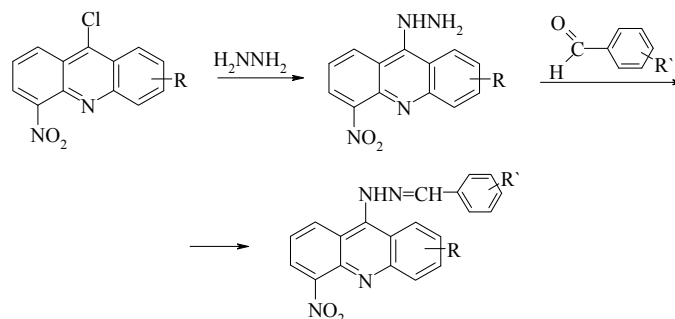
SYNTHESIS, PHYSICOCHEMICAL AND PHARMACOLOGICAL PROPERTIES OF 9-(R-BENZILIDEN)HYDRAZINOACRIDINES

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The synthesis of 5-nitro-9-(R-benziliden)hydrazinoacridines (scheme):

Scheme



R=H, 1- CH_3 , 2- CH_3 , 3- CH_3 , 2,3-(CH_3)₂, 4- OCH_3 , 2-Cl;
R'=H, OCH_3 , OH, F, NO_2 , $\text{N}(\text{CH}_3)_2$

The structure and individuality of the synthesized substances confirmed by the ultimate analysis, IR-, UV-, NMR-spectroscopy, chromato-mass spectrometry, counter synthesis, data qualitative reactions and thin-layer chromatography.

The computer prognosis of possible types of pharmacological activity is conducted on program of 18 first synthesized connections of 5-nitro-9-(R-benzi-liden)hydrazino acridines. It was established that the synthesized substances have antimicrobial, antifungal, anti-inflammatory, diuretic, antidiuretic and analgesic activities. According to classification by K.K. Sydorov synthesized compound at intra stomashentering belong to low toxicity compounds. A number of regularities of the «structure-activity-toxicity» relationship have been determined.

9-(4'-Metoxybenziliden)hydrazine-5-nitroacridine reveals the high antimicrobial, antifungal, anti-inflammatory, chloplologic activities with a low toxicity ($\text{DL}_{50} > 5500 \text{ mg/kg}$). A project of the analytical and normative documentation has been elaborated for this substance.