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Chemical modification of 5 α -steroidal oximes and amine with N-protected amino acids

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Some oximes and amines of 5 α -androstane series synthesized on the base of steroidal saponin-tigogenin showed high anti-inflammatory, antifungal and antiarrhythmic activities. Combination of steroid and amino acid in one molecule gives possibility to obtain compounds with wide spectrum of pharmacological activities. In order to find potential bioactive steroidal compounds, selective O- and N-acylation of 20-hydroximino-5 α -pregn-16-en-3 β -ole, 3 β -acetoxy-20-hydroximino-5 α -pregn-16-ene, 17-hydroximino-5 α -androstan-3 β -ole and 17 β -amino-5 α -androstan-3 β -ole with N-protected amino acids was carried out. Synthesized mono- and dipeptide derivatives have been investigated for their antiviral activity.

Biography

Nanuli Nadaraia has completed her PhD from Mendeleev Moscow Chemical-Technological Institute. She is a Lead Research Scientist at Tbilisi State Medical University. Her field of interest is a Chemistry and synthesis of biologically active compounds. She is the author of more than 40 papers in reputed journals and presentations at 50 international scientific conferences.

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