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Mono- and dipeptide derivatives of 17 β -Amino-5 α -androstan-3 β -ol

Nanuli Sh Nadaraia, Nana N Barbakadze and Meri L Kakhabrishvili
Tbilisi State Medical University, Georgia

Saturated and unsaturated 17 β -aminosteroids are used as intermediates to synthesize biologically active derivatives. Peptide analogs of aminosteroids with various physiological activities such as anti-tumor and anti-arrhythmic have been found, were prepared by adding amino acids to aminosteroids. Mono- and dipeptide derivatives of 17 β -amino-5 α -androstan-3 β -ol were synthesized by N-acylation with N-protected amino acids (N-Cbz-L-Ala-Bt, N-Cbz-L-Val-Bt, N-Cbz-L-Phe-Bt and N-Cbz-L-Ala-L-Val-Bt) and their antiviral activity have been studied. Starting amine, which exhibited anti-arrhythmic activity, was prepared from steroidal saponin - tigogenin using the method developed by us. To conclude, N-protected (α -aminoacyl) benzotriazoles have been utilized in the successful N-acylation of steroidal amines. Studies of antiviral activities (NIAID) of synthesized mono- and dipeptide derivatives did not reveal significant activities

Biography

Nanuli Sh 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 chemistry and synthesis of biologically active compounds. She is the author of more than 40 papers in reputed journals and has presentations at 50 international scientific conferences

nnadaraia@gmail.com

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