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Getting some potentially biologically active tripeptides based S-adamantil-1-cysteine. Activity against pig influenza virus.

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Abstract

Synthesized amino acid and 4 tripeptide modified with adamantane in various functional groups: C(S-Ad)-Ad, PGC(S-Ad)-Ad, FGC(S-Ad)-Ad, Ad-FGC(S-Ad)-Ad Ad-CH2-FGC(S-Ad)-Ad are discussed. All compounds were attached to balance adamantane via a sulfur atom of cysteine, as well as the rest of adamantane C-end. Two peptides were also modified adamantane via N-end. Computer evaluation of biological activity of compounds obtained has been made using *Pass Professional*, as well as the true test of antiviral activity (influenza A virus strain (A/IIV-Moscow/01/2009 (H1N1)swl). Computerized evaluation of hydrophobicity of the compounds obtained, search for conformers in the conditions of the global energy scarcity and the analysis of conformations and hydrogen bonds have been performed.