

Subject area: Activity against virus h1n1 influenza. Part. 3.

Getting some potentially biologically active tripeptides

© Evgeniy A. Stepanov,*⁺ Pyotr P. Purygin,

Alexander O. Chunaev, and Sergey V. Obuchov

Department of organic, Bioorganic and medicinal chemistry. Samara state university.

Ak.Pavlova, St., 1. Samara, 443011. Samara region. Russia.

Phone: +7 (846) 334-54-59. Fax: +7 (846) 334-54-17. E-mail: samarec@list.ru

*Supervising author; ⁺Corresponding author

Keywords: *peptides, adamantane, antiviral activity, a computer calculation of biological activity, H1N1 influenza.*

Abstract

Synthesis of 4 tripeptides is modified by adamantane carboxyl end: VVF-Ad, VVP-Ad, GGF-Ad, GGP-Ad. Has been made to The computer evaluation of biological activity of compounds obtained using program Pass Professional, as well as the true test of antiviral activity (influenza A virus strain (A/IIV-Moscow/01/2009 (H1N1) sw1) has been made. Computerized evaluation of hydrophobicity of the compounds obtained, search for the conformers with the global energy minimum and the analysis of conformations and hydrogen bonds were made.