

## Accepted Manuscript

Conjugates of 17-substituted testosterone and epitestosterone with pyropheophorbide a differing in the length of linkers

Vladimir A. Zolottsev, Gelii V. Ponomarev, Maria O. Taratynova, Galina E. Morozevich, Roman A. Novikov, Vladimir P. Timofeev, Pavel N. Solyev, Maria G. Zavialova, Olga V. Zazulina, Yaroslav V. Tkachev, Alexander Y. Misharin

PII: S0039-128X(18)30121-1  
DOI: <https://doi.org/10.1016/j.steroids.2018.06.011>  
Reference: STE 8282

To appear in: *Steroids*

Received Date: 12 February 2018  
Revised Date: 5 June 2018  
Accepted Date: 8 June 2018



Please cite this article as: Zolottsev, V.A., Ponomarev, G.V., Taratynova, M.O., Morozevich, G.E., Novikov, R.A., Timofeev, V.P., Solyev, P.N., Zavialova, M.G., Zazulina, O.V., Tkachev, Y.V., Misharin, A.Y., Conjugates of 17-substituted testosterone and epitestosterone with pyropheophorbide a differing in the length of linkers, *Steroids* (2018), doi: <https://doi.org/10.1016/j.steroids.2018.06.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**CONJUGATES OF 17-SUBSTITUTED TESTOSTERONE AND  
EPITESTOSTERONE WITH PYROPHEOPHORBIDE a DIFFERING IN THE  
LENGTH OF LINKERS.**

*Vladimir A. ZOLOTSEV<sup>1</sup>, Gelii V. PONOMAREV<sup>1</sup>, Maria O. TARATYNOVA<sup>1</sup>, Galina E. MOROZEVICH<sup>1</sup>, Roman A. NOVIKOV<sup>2</sup>, Vladimir P. TIMOFEEV<sup>2</sup>, Pavel N. SOLYEV<sup>2</sup>, Maria G. ZAVIALOVA<sup>1</sup>, Olga V. ZAZULINA<sup>1</sup>, Yaroslav V. TKACHEV<sup>2</sup>, Alexander Y. MISHARIN<sup>1</sup>*

<sup>1</sup>*Orekhovich Institute of Biomedical Chemistry, Moscow, Russia*

<sup>2</sup>*Engelhardt Institute of Molecular Biology RAS, Moscow, Russia*

***Keywords:***

steroid conjugates; chemical synthesis; tetrapyrrolic macrocycles; molecular models; interaction with prostate carcinoma cells; structure-activity relationships.

***Highlights:***

- Testosterone and epitestosterone chemically conjugated with pyropheophorbide a
- Spectral properties and molecular models of conjugates are presented
- Epitestosterone conjugates inhibit LNCaP and PC-3 cells growth stronger
- Conformationally rigid conjugates possess stronger anti-proliferative activity

Download English Version:

<https://daneshyari.com/en/article/8366023>

Download Persian Version:

<https://daneshyari.com/article/8366023>

[Daneshyari.com](https://daneshyari.com)