Accepted Manuscript

Synthesis and pharmacological evaluation of neurosteroid photoaffinity ligands

Pavel Y. Savechenkov, David C. Chiara, Rooma Desai, Alexander T. Stern, Xiaojuan Zhou, Alexis M. Ziemba, Andrea L. Szabo, Yinghui Zhang, Jonathan B. Cohen, Stuart A. Forman, Keith W. Miller, Karol S. Bruzik

PII: S0223-5234(17)30309-4

DOI: 10.1016/j.ejmech.2017.04.043

Reference: EJMECH 9394

To appear in: *European Journal of Medicinal Chemistry*

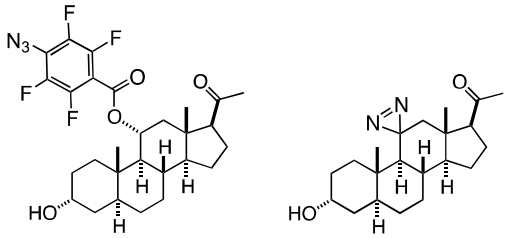
Received Date: 15 February 2017

Revised Date: 17 April 2017

Accepted Date: 18 April 2017

Please cite this article as: P.Y. Savechenkov, D.C. Chiara, R. Desai, A.T. Stern, X. Zhou, A.M. Ziemba, A.L. Szabo, Y. Zhang, J.B. Cohen, S.A. Forman, K.W. Miller, K.S. Bruzik, Synthesis and pharmacological evaluation of neurosteroid photoaffinity ligands, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.04.043.

Graphical Abstract



Azide and diazirine analogs of the neurosteroid general anesthetic drug, alphaxalone, were synthesized and were found to efficiently photolabel heteropentameric $GABA_A$ receptors.