Accepted Manuscript

Synthesis and biological evaluation of new naphtho- and quinolinocyclopentane derivatives as potent melatoninergic (MT_1/MT_2) and serotoninergic (5-HT_{2C}) dual ligands

Romain Duroux, Marouan Rami, Elodie Landagaray, Mohamed Ettaoussi, Daniel-Henri Caignard, Philippe Delagrange, Patricia Melnyk, Saïd Yous

PII: S0223-5234(17)30818-8

DOI: 10.1016/j.ejmech.2017.10.025

Reference: EJMECH 9817

To appear in: *European Journal of Medicinal Chemistry*

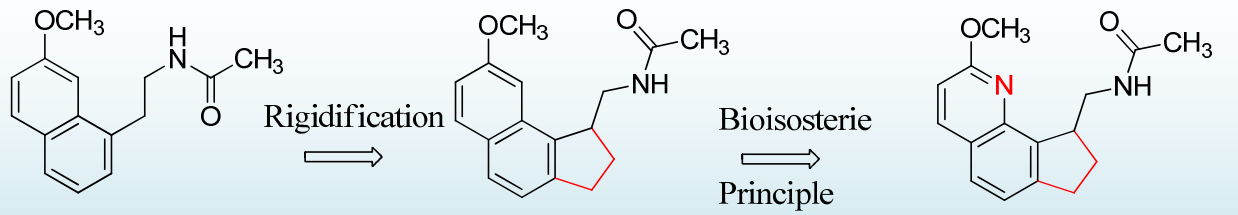
Received Date: 18 September 2017

Revised Date: 8 October 2017

Accepted Date: 9 October 2017

Please cite this article as: R. Duroux, M. Rami, E. Landagaray, M. Ettaoussi, D.-H. Caignard, P. Delagrange, P. Melnyk, Saï. Yous, Synthesis and biological evaluation of new naphtho- and quinolinocyclopentane derivatives as potent melatoninergic (MT_1/MT_2) and serotoninergic (5-HT_{2C}) dual ligands, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.10.025.

GRAPHICAL ABSTRACT



Agomelatine (I)

Ki (MT_1) = 0.1 nM
Ki (MT_2) = 0.2 nM
Ki ($5HT_{2c}$) = 708 nM

Naphthocyclopentane (17a)

Ki (MT_1) = 0.3 nM
Ki (MT_2) = 0.2 nM
Ki ($5HT_{2c}$) = 61 nM

Quinolinocyclopentane (24a)

Ki (MT_1) = 0.4 nM
Ki (MT_2) = 0.2 nM
Ki ($5HT_{2c}$) = 160 nM