

Accepted Manuscript

Neurogenic and neuroprotective donepezil-flavonoid hybrids with sigma-1 affinity and inhibition of key enzymes in Alzheimer's disease

Martín Estrada Valencia, Clara Herrera-Arozamena, Lucía de Andrés, Concepción Pérez, José A. Morales-García, Ana Pérez-Castillo, Eva Ramos, Alejandro Romero, Dolores Viña, Matilde Yáñez, Erik Laurini, Sabrina Pricl, María Isabel Rodríguez-Franco



PII: S0223-5234(18)30582-8

DOI: [10.1016/j.ejmech.2018.07.026](https://doi.org/10.1016/j.ejmech.2018.07.026)

Reference: EJMECH 10561

To appear in: *European Journal of Medicinal Chemistry*

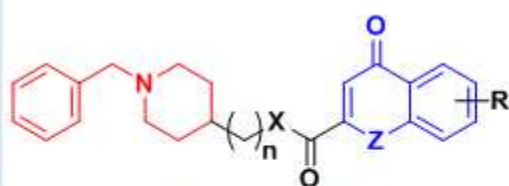
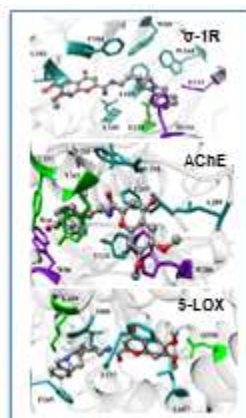
Received Date: 29 May 2018

Revised Date: 18 June 2018

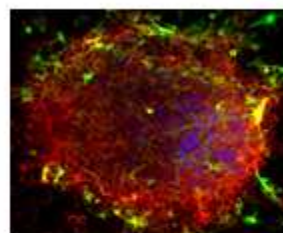
Accepted Date: 9 July 2018

Please cite this article as: Martí. Estrada Valencia, C. Herrera-Arozamena, Lucí. de Andrés, Concepción Pérez, José.A. Morales-García, A. Pérez-Castillo, E. Ramos, A. Romero, D. Viña, M. Yáñez, E. Laurini, S. Pricl, Mari.Isabel. Rodríguez-Franco, Neurogenic and neuroprotective donepezil-flavonoid hybrids with sigma-1 affinity and inhibition of key enzymes in Alzheimer's disease, *European Journal of Medicinal Chemistry* (2018), doi: 10.1016/j.ejmech.2018.07.026.

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.



- > Sigma-1 receptor, K_i s \approx 1 – 45 nM
- > AChE, IC_{50} s \approx 21 – 100 nM
- > 5-LOX, IC_{50} s \approx 4 – 90 μ M
- > MAO-A/B, IC_{50} s \approx 5 – 70 μ M
- > ROS-trapping capacities
- > CNS-permeable compounds



- > Neuroprotection vs. mitochondrial oxidative stress
- > Maturation of neural stem cells to neuronal phenotype

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7795987>

Download Persian Version:

<https://daneshyari.com/article/7795987>

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