

Accepted Manuscript

Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, *in vitro* biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies

Wagdy M. Eldehna, Ghada H. Al-Ansary, Silvia Bua, Alessio Nocentini, Paola Gratteri, Ayman Altoukhy, Hazem Ghabbour, Hanaa Y. Ahmed, Claudiu T. Supuran

PII: S0223-5234(17)30025-9

DOI: [10.1016/j.ejmech.2017.01.017](https://doi.org/10.1016/j.ejmech.2017.01.017)

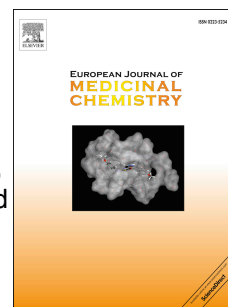
Reference: EJMECH 9168

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 28 December 2016

Revised Date: 8 January 2017

Accepted Date: 10 January 2017



Please cite this article as: W.M. Eldehna, G.H. Al-Ansary, S. Bua, A. Nocentini, P. Gratteri, A. Altoukhy, H. Ghabbour, H.Y. Ahmed, C.T. Supuran, Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, *in vitro* biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.01.017.

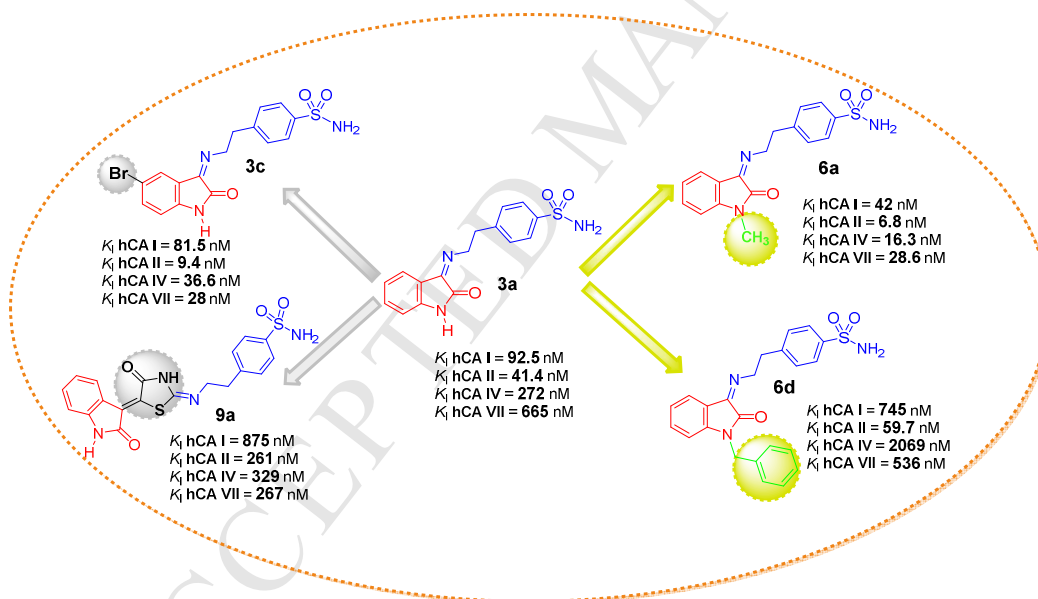
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please 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.

Graphical abstract

Novel indolin-2-one-based sulfonamides as carbonic anhydrase inhibitors: Synthesis, *in vitro* biological evaluation against carbonic anhydrases isoforms I, II, IV and VII and molecular docking studies

Wagdy M. Eldehna,* Ghada H. Al-Ansary, Silvia Bua, Alessio Nocentini, Paola Gratteri, Ayman Altoukhy, Hazem Ghabbour, Hanaa Y. Ahmed, Claudiu T. Supuran*

Three different series of novel sulfonamides incorporating substituted indolin-2-one moieties linked to benzenesulfonamide through aminoethyl or (4-oxothiazolidin-2-ylidene)aminoethyl linkers, were synthesized and evaluated for their inhibitory activity against a panel of carbonic anhydrase isoforms, hCA I, II, IV and VII.



Download English Version:

<https://daneshyari.com/en/article/5158583>

Download Persian Version:

<https://daneshyari.com/article/5158583>

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