

# Accepted Manuscript

Discovery of phenylsulfonyl acetic acid derivatives with improved efficacy and safety as potent free fatty acid receptor 1 agonists for the treatment of type 2 diabetes

Zheng Li, Chunxia Liu, Xue Xu, Qianqian Qiu, Xin Su, Yuxuan Dai, Jianyong Yang, Huilan Li, Wei Shi, Chen Liao, Miaobo Pan, Wenlong Huang, Hai Qian



PII: S0223-5234(17)30523-8

DOI: [10.1016/j.ejmech.2017.07.001](https://doi.org/10.1016/j.ejmech.2017.07.001)

Reference: EJMECH 9564

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 23 April 2017

Revised Date: 15 June 2017

Accepted Date: 2 July 2017

Please cite this article as: Z. Li, C. Liu, X. Xu, Q. Qiu, X. Su, Y. Dai, J. Yang, H. Li, W. Shi, C. Liao, M. Pan, W. Huang, H. Qian, Discovery of phenylsulfonyl acetic acid derivatives with improved efficacy and safety as potent free fatty acid receptor 1 agonists for the treatment of type 2 diabetes, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.07.001.

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.

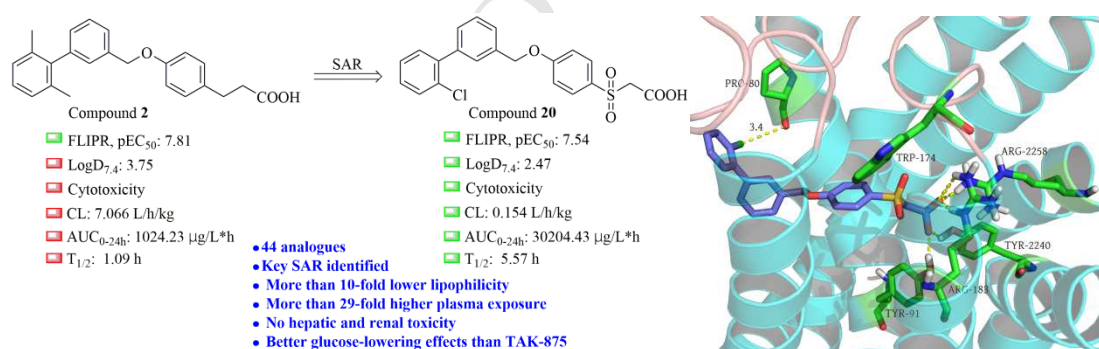
## Discovery of Phenylsulfonyl Acetic Acid Derivatives with Improved Efficacy and Safety as Potent Free Fatty Acid Receptor 1 Agonists for the Treatment of Type 2 Diabetes

Zheng Li<sup>a</sup>, Chunxia Liu<sup>a</sup>, Xue Xu<sup>a</sup>, Qianqian Qiu<sup>a</sup>, Xin Su<sup>a</sup>, Yuxuan Dai<sup>a</sup>, Jianyong Yang<sup>a</sup>, Huilan Li<sup>a</sup>, Wei Shi<sup>a</sup>, Chen Liao<sup>a</sup>, Miaobo Pan<sup>a</sup>, Wenlong Huang<sup>a, b\*</sup>, Hai Qian<sup>a, b\*</sup>

<sup>a</sup>Center of Drug Discovery, State Key Laboratory of Natural Medicines, China Pharmaceutical University, 24 Tongjiaxiang, Nanjing 210009, PR China.

<sup>b</sup>Jiangsu Key Laboratory of Drug Discovery for Metabolic Disease, China Pharmaceutical University, 24 Tongjiaxiang, Nanjing 210009, PR China

### Graphical Abstract



Aiming to develop potent agonist with improved efficacy and safety, we have identified series of FFA1 agonists bearing sulfone-carboxylic acid moiety, exemplified by the potent and orally bioavailable agonist **20**.

\* Co-corresponding authors: Wenlong Huang and Hai Qian, Centre of Drug Discovery, State Key Laboratory of Natural Medicines, China Pharmaceutical University, 24 Tongjiaxiang, Nanjing 210009, China.  
Tel: +86-25-83271050; Fax: +86-25-83271050.  
E-mail: ydhuangwenlong@126.com (W.L. Huang), qianhai24@163.com (H. Qian).

Download English Version:

<https://daneshyari.com/en/article/5158727>

Download Persian Version:

<https://daneshyari.com/article/5158727>

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