

Accepted Manuscript

Isoalantolactone derivative promotes glucose utilization in skeletal muscle cells and increases energy expenditure in db/db mice via activating AMPK-dependent signaling

Deepti Arha, E. Ramakrishna, Anand P. Gupta, Amit K. Rai, Aditya Sharma, Ishbal Ahmad, Mohammed Riyazuddin, Jiaur R. Gayen, Rakesh Maurya, Akhilesh K. Tamrakar

PII: S0303-7207(17)30389-1

DOI: [10.1016/j.mce.2017.07.015](https://doi.org/10.1016/j.mce.2017.07.015)

Reference: MCE 10014

To appear in: *Molecular and Cellular Endocrinology*

Received Date: 21 February 2017

Revised Date: 16 June 2017

Accepted Date: 19 July 2017

Please cite this article as: Arha, D., Ramakrishna, E., Gupta, A.P., Rai, A.K., Sharma, A., Ahmad, I., Riyazuddin, M., Gayen, J.R., Maurya, R., Tamrakar, A.K., Isoalantolactone derivative promotes glucose utilization in skeletal muscle cells and increases energy expenditure in db/db mice via activating AMPK-dependent signaling, *Molecular and Cellular Endocrinology* (2017), doi: 10.1016/j.mce.2017.07.015.

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.



1 **Isoalantolactone derivative promotes glucose utilization in skeletal muscle cells and**
2 **increases energy expenditure in db/db mice via activating AMPK-dependent signaling**

3
4 **Deepti Arha^{a, d#}, E. Ramakrishna^{b#}, Anand P. Gupta^c, Amit K. Rai^a, Aditya Sharma^a,**
5 **Ishbal Ahmad^a, Mohammed Riyazuddin^c, Jiaur R. Gayen^c, Rakesh Maurya^b, Akhilesh K.**
6 **Tamrakar^{a, d*}**

7
8 *^aBiochemistry Division, CSIR-Central Drug Research Institute, Lucknow-226031*

9 *^bMedicinal and Process Chemistry Division, CSIR-Central Drug Research Institute, Lucknow-*
10 *226031*

11 *^cPharmacokinetics and Metabolism Division, CSIR-Central Drug Research Institute, Lucknow-*
12 *226031*

13 *^dAcademy of Scientific and Innovative Research, New Delhi 110001,India.*

14 [#]Equal contribution

15

16

17 ***Corresponding authors**

18 **Dr. Akhilesh Kumar Tamrakar**

19 Division of Biochemistry, CSIR-Central Drug Research Institute

20 Sec-10, Jankipuram Extension, Sitapur Road, Lucknow-226031, India

21 E-mail: akhilesh_tamrakar@cdri.res.in

22 Tel: +91-0522-2772550 Ext. 4635

23 Fax: +91-0522-2771941

Download English Version:

<https://daneshyari.com/en/article/8476611>

Download Persian Version:

<https://daneshyari.com/article/8476611>

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