

Accepted Manuscript

A new glycotoxins inhibitor attenuates insulin resistance in liver and fat cells

Shabbir Khan Afridi, Meha Fatima Aftab, Munazza Murtaza, Safina Ghaffar, Aneela Karim, Uzma Rasool Mughal, Khalid Mohammed Khan, Rizwana Sanaullah Waraich



PII: S0006-291X(16)30784-7

DOI: [10.1016/j.bbrc.2016.05.085](https://doi.org/10.1016/j.bbrc.2016.05.085)

Reference: YBBRC 35835

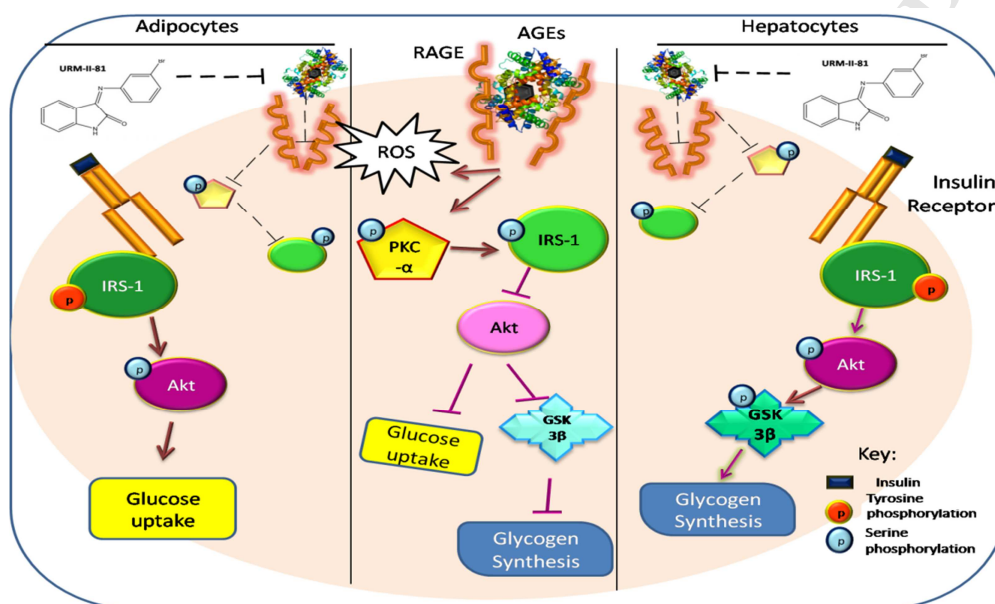
To appear in: *Biochemical and Biophysical Research Communications*

Received Date: 11 May 2016

Accepted Date: 16 May 2016

Please cite this article as: S.K. Afridi, M.F. Aftab, M. Murtaza, S. Ghaffar, A. Karim, U.R. Mughal, K.M. Khan, R.S. Waraich, A new glycotoxins inhibitor attenuates insulin resistance in liver and fat cells, *Biochemical and Biophysical Research Communications* (2016), doi: 10.1016/j.bbrc.2016.05.085.

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.



A novel glycotxin inhibitor, URM-II-81, modulated key molecules of proximal and distal insulin signaling and hence alleviated glycotxin mediated diminished insulin signaling. URM-II-81 also increased glycogen synthesis and glucose uptake in liver and fat cells, respectively. Novel derivative of isatin showed significant reduced receptor for AGEs (RAGE) expression, antioxidant activity and PKC-alpha activation, therefore; URM-II-81 reduced glycotxin induced insulin resistance.

Download English Version:

<https://daneshyari.com/en/article/10748105>

Download Persian Version:

<https://daneshyari.com/article/10748105>

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