## Accepted Manuscript

Title: Glutamine upregulates pancreatic sodium-dependent neutral aminoacid transporter-2 and mitigates islets apoptosis in diabetic rats

Authors: Zekrayat J.H. Medras, Norhan M. El-Sayed, Sawsan A. Zaitone, Eman A. Toraih, Manal M. Sami, Yasser M. Moustafa

PII: S1734-1140(17)30333-X

DOI: https://doi.org/10.1016/j.pharep.2017.10.009

Reference: PHAREP 810

To appear in:

Received date: 12-5-2017 Revised date: 24-9-2017 Accepted date: 24-10-2017

Please cite this article as: Zekrayat J.H.Medras, Norhan M.El-Sayed, Sawsan A.Zaitone, Eman A.Toraih, Manal M.Sami, Yasser M.Moustafa, Glutamine upregulates pancreatic sodium-dependent neutral aminoacid transporter-2 and mitigates islets apoptosis in diabetic rats (2010), https://doi.org/10.1016/j.pharep.2017.10.009

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.



Glutamine upregulates pancreatic sodium-dependent neutral aminoacid

transporter-2 and mitigates islets apoptosis in diabetic rats

Zekrayat J.H. Medras<sup>a</sup>, Norhan M. El-Sayed<sup>b</sup>, Sawsan A. Zaitone<sup>b,c</sup>, Eman A.

Toraih<sup>d</sup>, Manal M. Sami <sup>e</sup>, Yasser M. Moustafa<sup>b</sup>

<sup>a</sup>Ministry of Health, Kuwait City, Al-Kuwait.

<sup>b</sup>Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University,

Ismailia 41522, Egypt.

<sup>c</sup>Department of Pharmacology and Toxicology, Faculty of Pharmacy, University of Tabuk,

Tabuk, Saudi Arabia.

<sup>d</sup>Genetics Unit, Department of Histology & Cell Biology, Faculty of Medicine, Suez Canal

University, Ismailia 41522, Egypt.

<sup>e</sup>Department of Pathology, Faculty of Medicine, Suez Canal University, Ismailia, Egypt.

Correspondence should be addressed to:

Sawsan A Zaitone, PhD

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Suez Canal University,

Ismailia, Egypt.

E-mail: sawsan\_zaytoon@pharm.suez.edu.eg

**Tel:** 002-010-68916396

**Fax:** 002-064-3230741

**Abstract** 

**Background:** Glutamine aminoacid regulates insulin exocytosis from pancreatic β-cells.

Liraglutide is a glucagon-like peptide-1 (GLP-1) analogue that has fascinated function in

1

## Download English Version:

## https://daneshyari.com/en/article/8349624

Download Persian Version:

https://daneshyari.com/article/8349624

<u>Daneshyari.com</u>