### **Accepted Manuscript**

 $\text{Ca}_{\text{V}}3.1$  isoform of T-type calcium channels supports excitability of rat and mouse ventral tegmental area neurons

Matthew E. Tracy, Vesna Tesic, Tamara Timic Stamenic, Srdjan M. Joksimovic, Nicolas Busquet, Vesna Jevtovic-Todorovic, Slobodan M. Todorovic

PII: S0028-3908(18)30139-4

DOI: 10.1016/j.neuropharm.2018.03.028

Reference: NP 7131

To appear in: Neuropharmacology

Received Date: 12 September 2017

Revised Date: 19 March 2018 Accepted Date: 21 March 2018

Please cite this article as: Tracy, M.E., Tesic, V., Stamenic, T.T., Joksimovic, S.M., Busquet, N., Jevtovic-Todorovic, V., Todorovic, S.M., Ca<sub>V</sub>3.1 isoform of T-type calcium channels supports excitability of rat and mouse ventral tegmental area neurons, *Neuropharmacology* (2018), doi: 10.1016/j.neuropharm.2018.03.028.

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.



#### CCEPTED MANUSCRIPT

## Title: Ca<sub>V</sub>3.1 isoform of T-type calcium channels supports excitability of rat and mouse ventral tegmental area neurons

Authors: Matthew E. Tracy 1, Vesna Tesic 1, Tamara Timic Stamenic 1, Srdjan M. Joksimovic 1, Nicolas Busquet, Vesna Jevtovic-Todorovic<sup>1</sup>, Slobodan M. Todorovic<sup>1,2</sup>

Department of Anesthesiology<sup>1</sup> and Neurology<sup>3</sup>, University of Colorado, Anschutz Medical Campus, Aurora

<sup>2</sup> Neuroscience Graduate Program, University of Colorado, Anschutz Medical Campus, Aurora

☐ Correspondence Author: Slobodan M. Todorovic

Phone 303-724-9122; Fax 303-724-9752 E-mail: slobodan.todorovic@ucdenver.edu University of Colorado Anschutz Medical Campus Department of Anesthesiology, Mail Stop 8130

12801 E. 17<sup>th</sup> Avenue, Rm L18-4100

Aurora, CO 80045

#### Acknowledgements

This study was funded in part by grants from the National Institutes of Health (GRANT# R01GM102525 to S.M.T. and R01GM118197 to V.J-T.). We thank Dr. Charles Adrian Handforth for donating the breeding pairs of Ca<sub>V</sub>3.1 knock-out mice.

#### Conflict of interest

The authors received no compensation, nor do they have any conflicting financial interests in regards to the work described in this manuscript.

Keywords: ventral tegmental area, dopamine, T-type calcium channel, TTA-P2, rebound spiking, burst firing, low-voltage-activated.

#### Download English Version:

# https://daneshyari.com/en/article/8516729

Download Persian Version:

https://daneshyari.com/article/8516729

<u>Daneshyari.com</u>