Title: Post-exposure treatment with the oxime RS194B rapidly reactivates and reverses advanced symptoms of lethal inhaled paraoxon in macaques

Authors: Yvonne J. Rosenberg, Jerry Wang, Tara Ooms, Narayanan Rajendran, Lingjun Mao, Xiaoming Jiang, Jonathan Lees, Lori Urban, Jeremiah Romper, Yadire Sepulveda, Yan-Jye Shyong, Palmer Taylor

PII: S0378-4274(17)31448-0
DOI: https://doi.org/10.1016/j.toxlet.2017.10.025
Reference: TOXLET 9991

To appear in: *Toxicology Letters*

Received date: 12-9-2017
Revised date: 18-10-2017
Accepted date: 29-10-2017

Please cite this article as: Rosenberg, Yvonne J., Wang, Jerry, Ooms, Tara, Rajendran, Narayanan, Mao, Lingjun, Jiang, Xiaoming, Lees, Jonathan, Urban, Lori, Romper, Jeremiah, Sepulveda, Yadire, Shyong, Yan-Jye, Taylor, Palmer, Post-exposure treatment with the oxime RS194B rapidly reactivates and reverses advanced symptoms of lethal inhaled paraoxon in macaques.Toxicology Letters https://doi.org/10.1016/j.toxlet.2017.10.025

TITLE PAGE

Post-exposure treatment with the oxime RS194B rapidly reactivates and reverses advanced symptoms of lethal inhaled paraoxon in macaques

Yvonne J. Rosenberg^, Jerry Wang,* Tara Ooms*, Narayanan Rajendran*, Lingjun Mao^, Xiaoming Jiang^, Jonathan Lees^, Lori Urban^, Jeremiah Romper[#], Yadire Sepulveda[#], Yan-Jye Shyong[#], Palmer Taylor[#].

^PlantVax Inc, Rockville, MD 20850, United States

*IIT Research Institute, Chicago, IL60616

[#] Department of Pharmacology, Skaggs School of Pharmacy & Pharmaceutical Sciences, University of California, San Diego, La Jolla 92093-0650, USA.

^Corresponding Author: Dr. Yvonne Rosenberg**,** PlantVax Inc. 9430 Key West Ave, Suite 120, Rockville, MD 20850. Tel: +1 240-453-6247**.** E-mail address: yjr@plantvax.com

E-mail addresses: yrosenther@aol.com (Y.Rosenberg), jwang@iitri.org J. Wang), tooms@iitri.org (T. Ooms), NRajendran@iitri.org (N. Rajendran), ljm@plantvax.com (L. Mao), xmj@plantvax.com (X. Jiang), jpl@plantvax.com (J. Lees), lurban@plantvax.com (L. Urban), jmomper@ucsd.edu (J. Romper), ysepulveda@ucsd.edu (Y. Sepulveda), yshyong@ucsd.edu (Y-J Shyong), pwtaylor@ucsd.edu (P. Taylor).

ABSTRACT

Fatalities from organophosphate (OP) insecticide result from both occupational and deliberate exposure; significantly impacting human health. Like nerve agents, insecticides