**Request Information** 

Permalink

# Amide Inhibitors of Human Secreted Phospholipase A2

Tech ID: 19410 / UC Case 2009-002-0

### **BACKGROUND**

Recent studies have revealed an important role for the enzyme phospholipase A2 (PLA2) in various aspects of inflammation in the peripheral and central nervous system. PLA2 consists of a superfamily of enzymes involved in the turnover of phospholipids; their metabolic products can induce both inflammation and demyelination. Therefore, PLA2 enzymes are good candidates as drug targets for the treatment.

#### **TECHNOLOGY DESCRIPTION**

UC San Diego researchers have developed novel amide compounds for the treatment of inflammation. The new molecules are potent inhibitors of secreted PLA2 (sPLA2).

#### **ADVANTAGES**

- ▶ Potential drugs for the treatment of MS and spinal cord injuries.
- ▶ High degree of specificity respectively for the sPLA2.

#### STATE OF DEVELOPMENT

This technology is offered exclusively or nonexclusively in the U.S. and/or worldwide territories. A commercial sponsor for potential future research is sought.

# **RELATED MATERIALS**

▶ Antonopoulou, G., Barbayianni, E., Magrioti, V., Cotton, N., Stephens, D., Constantinou-Kokotou, V., Dennis, E.A. and Kokotos, G., Structure-Activity Relationships of Natural and Non-Natural Amino Acid-Based Amide and 2-Oxoamide Inhibitors of Human Phospholipase A2 Enzymes, Bioorg.Med.Chem., 16, 10257-10269 (2008).

# PATENT STATUS

Country	Туре	Number	Dated	Case
United States Of America	Issued Patent	8,759,392	06/24/2014	2009-002

# CONTACT

University of California, San Diego Office of Innovation and Commercialization innovation@ucsd.edu tel: 858.534.5815.



#### **INVENTORS**

Dennis, Edward A.

#### OTHER INFORMATION

#### **KEYWORDS**

therapy, drug, phospholipase A2,

PLA2, inhibitor, inflammation,

demyelination

## **CATEGORIZED AS**

- ▶ Medical
  - ▶ Disease: Central Nervous System
  - ▶ New Chemical Entities,

Drug Leads

## **RELATED CASES**

2009-002-0

# **RELATED TECHNOLOGIES**

▶ Selective Phospholipase A2 Inhibitors of Neurological Diseases

# ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ Selective Phospholipase A2 Inhibitors of Neurological Diseases

University of California, San Diego
Office of Innovation and Commercialization
9500 Gilman Drive, MC 0910, ,
La Jolla, CA 92093-0910

Tel: 858.534.5815
innovation@ucsd.edu
https://innovation.ucsd.edu
Fax: 858.534.7345

© 2009 - 2014, The
Regents of the University of
California
Terms of use
Privacy Notice