

(19)



(11)

**EP 2 384 758 A1**

(12)

**EUROPEAN PATENT APPLICATION**

(43) Date of publication:

**09.11.2011 Bulletin 2011/45**

(51) Int Cl.:

**A61K 31/7034<sup>(2006.01)</sup> A61K 36/28<sup>(2006.01)</sup>  
A61P 3/10<sup>(2006.01)</sup>**

(21) Application number: **11176167.2**

(22) Date of filing: **11.02.2008**

(84) Designated Contracting States:

**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT  
RO SE SI SK TR**

Designated Extension States:

**AL BA MK RS**

(30) Priority: **12.02.2007 US 674105**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:

**08101484.7 / 1 955 701**

(71) Applicant: **Academia Sinica**

**Nan-Kang,  
Taipei (TW)**

(72) Inventors:

- **Yang, Wen-Chin  
Adh-An Shiang Taichung County (TW)**
- **Chang, Lee-Tian  
Taichung 402 Taiwan (TW)**

(74) Representative: **Gill, Siân Victoria et al**

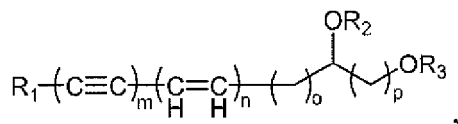
**Venner Shipley LLP  
20 Little Britain  
London EC1A 7DH (GB)**

Remarks:

This application was filed on 01-08-2011 as a divisional application to the application mentioned under INID code 62.

(54) **Polyacetylenic compounds**

(57) This invention relates to a method of treating type II diabetes with a polyacetylenic compound of the following formula:



in which R<sub>1</sub> is H, C<sub>1</sub>-C<sub>10</sub> alkyl, C<sub>2</sub>-C<sub>10</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, C<sub>3</sub>-C<sub>20</sub> cycloalkyl, C<sub>3</sub>-C<sub>20</sub> cycloalkenyl, C<sub>1</sub>-C<sub>20</sub> heterocycloalkyl, C<sub>1</sub>-C<sub>20</sub> heterocycloalkenyl, aryl, or heteroaryl; R<sub>2</sub> is H or a monosaccharide residue; R<sub>3</sub> is H or C<sub>1</sub>-C<sub>10</sub> alkyl; m is 2, 3, or 4; n is 0, 1, 2, or 3; o is 0, 1, 2, 3, or 4; and p is 1, 2, 3, or 4.

**EP 2 384 758 A1**