

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 December 2007 (27.12.2007)

PCT

(10) International Publication Number  
**WO 2007/149482 A3**

(51) International Patent Classification:

A61K 31/12 (2006.01) A61K 31/35 (2006.01)

(21) International Application Number:

PCT/US2007/014374

(22) International Filing Date: 20 June 2007 (20.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/815,064 20 June 2006 (20.06.2006) US

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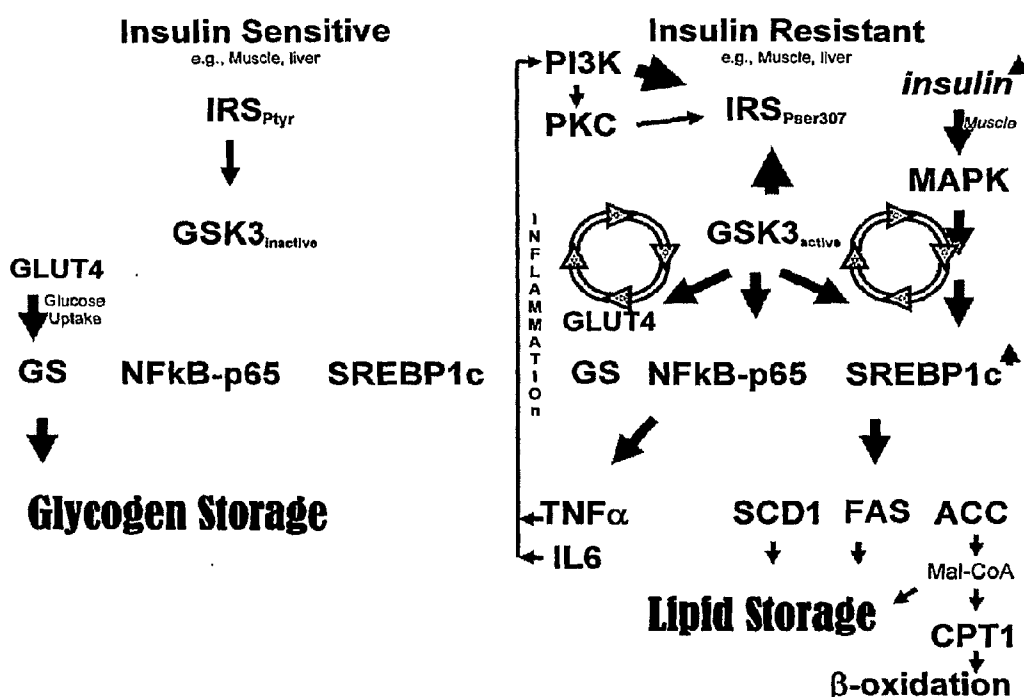
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,

[Continued on next page]

(54) Title: XANTHOTHUMOL BASED PROTEIN KINASE MODULATION CANCER TREATMENT



(57) Abstract: Compounds and methods for protein kinase modulation for cancer treatment are disclosed. The compounds and methods disclosed are based on xanthohumol or isoxanthohumol, commonly found in hops.

WO 2007/149482 A3



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments*

**Published:**

— *with international search report*

**(88) Date of publication of the international search report:**

8 May 2008

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/14374

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 31/12( 2006.01),31/35( 2006.01)

USPC: 514/679,456

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/679, 456

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
STN and inventors

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                            | Relevant to claim No. |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X          | GERHAUSER et al., "Cancer Chemopreventive Activity of Xanthohumol, a Natural Product from Hop," Molecular Cancer Therapeutics, Vol.1, No.11, pages 959-969, see the Abstract and Figures 1-5. | 1-6                   |
| Y          | Remington's Pharmaceutical Sciences, 15th edition, Mack Publishing Co., Chapter 75, pages 1365-1367 (1975)                                                                                    | 7, 8                  |



Further documents are listed in the continuation of Box C.



See patent family annex.

| Special categories of cited documents:                                                                                                                                  |                                                                                                                                                                                                                                                  |
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Date of the actual completion of the international search  
02 March 2008 (02.03.2008)

Date of mailing of the international search report

11 MAR 2008

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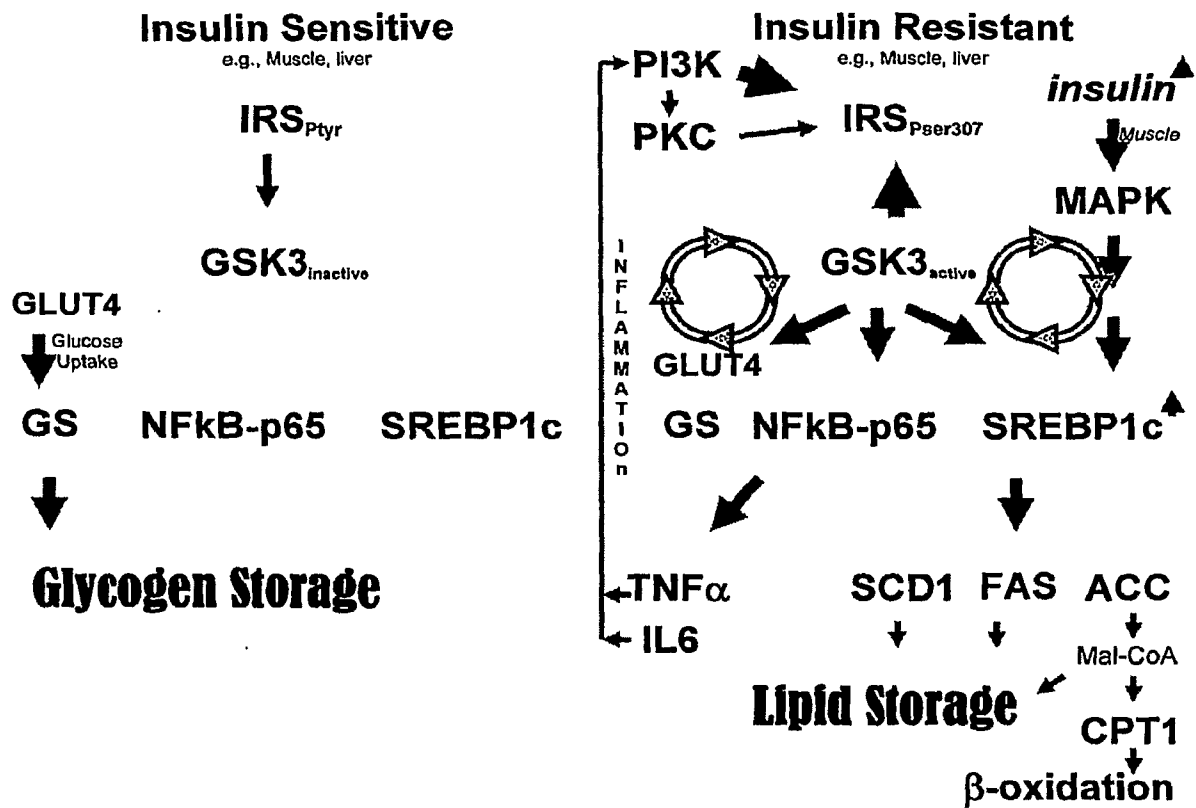


Fig. 1