

Title (en)

CELL-BASED ASSAY FOR SCREENING COX-2 INHIBITORS

Title (de)

AUF ZELLEN BASIERTER ASSAY ZUM SCREENING VON COX-2-INHIBITOREN

Title (fr)

ESSAI A BASE DE CELLULES DESTINE AU CRIBLAGE D'INHIBITEURS DE COX-2

Publication

EP 1187934 A4 20020731 (EN)

Application

EP 00941446 A 20000615

Priority

- US 0016486 W 20000615
- US 13956999 P 19990616

Abstract (en)

[origin: WO0077245A1] A cell-based assay is provided for screening substances for the capacity to inhibit COX-2 activity. The assay utilizes as a screening reagent a cell line which has been engineered to achieve constitutive or inducible expression of COX-2. In one embodiment, the cells express a GTPase-deficient, constitutively-activated mutant form of the alpha -subunit of protein G12 which induces the production of arachidonic acid and COX-2. Decreased cell proliferation in the presence of test substance indicates that the substance has COX-2 inhibitory activity.

IPC 1-7

C12Q 1/26; C12Q 1/28; C12N 9/00; C12N 9/02

IPC 8 full level

C12Q 1/26 (2006.01); **G01N 33/50** (2006.01); **G01N 33/88** (2006.01)

CPC (source: EP)

C12Q 1/26 (2013.01); **G01N 33/5008** (2013.01); **G01N 33/5011** (2013.01); **G01N 33/88** (2013.01); **G01N 2500/10** (2013.01)

Citation (search report)

- [XY] AT 402936 B 19970925 - NYCOMED AUSTRIA GMBH [AT]
- [Y] AT 402732 B 19970825 - NYCOMED AUSTRIA GMBH [AT]
- [Y] WO 9414977 A1 19940707 - MERCK FROSST CANADA INC [CA], et al
- [PX] MC DERMOTT JONATHAN M ET AL: "Oncogenic mutant of Galpha12 stimulates cell proliferation through cyclooxygenase-2 signaling pathway.", ONCOGENE, vol. 18, no. 51, 2 December 1999 (1999-12-02), pages 7185 - 7189, XP001071176, ISSN: 0950-9232
- See references of WO 0077245A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0077245 A1 20001221; **WO 0077245 A9 20020620**; AU 5615200 A 20010102; CA 2374676 A1 20001221; EP 1187934 A1 20020320; EP 1187934 A4 20020731

DOCDB simple family (application)

US 0016486 W 20000615; AU 5615200 A 20000615; CA 2374676 A 20000615; EP 00941446 A 20000615