

Title (en)

ASSAYS FOR LIGANDS FOR NUCLEAR RECEPTORS

Title (de)

VERFAHREN ZUR IDENTIFIZIERUNG VON LIGANDEN VON NUKLEÄREN REZEPTOREN

Title (fr)

PROCEDE D'IDENTIFICATION DE LIGANDS DE RECEPTEURS NUCLEAIRES

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Application

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Abstract (en)

[origin: WO0025134A1] The present invention includes new nuclear receptor heterodimer and nuclear receptor-coactivator peptide assays for identifying ligands for nuclear receptors, utilizing scintillation proximity and fluorescence resonance energy transfer (FRET).

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IPC 8 full level

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Citation (search report)

- [XPY] WO 9950664 A1 19991007 - GLAXO GROUP LTD [GB], et al
- [XPY] WO 9918124 A1 19990415 - MERCK & CO INC [US], et al
- [X] WO 9832444 A1 19980730 - UNIV CALIFORNIA [US], et al
- [X] WO 9621742 A1 19960718 - SALK INST FOR BIOLOGICAL STUDI [US]
- [DXY] ZHOU G ET AL: "NUCLEAR RECEPTORS HAVE DISTINCT AFFINITIES FOR COACTIVATORS: CHARACTERIZATION BY FLUORESCENCE RESONANCE ENERGY TRANSFER", MOLECULAR ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 12, no. 10, October 1998 (1998-10-01), pages 1594 - 1604, XP002934409, ISSN: 0888-8809
- [YD] KREY G ET AL: "FATTY ACIDS, EICOSANOIDS, AND HYPOLIPIDEMIC AGENTS IDENTIFIED AS LIGANDS OF PEROXISOME PROLIFERATOR-ACTIVATED RECEPTORS BY COACTIVATOR-DEPENDENT RECEPTOR LIGAND ASSAY", MOLECULAR ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 11, no. 6, June 1997 (1997-06-01), pages 779 - 791, XP002915086, ISSN: 0888-8809
- [Y] NICHOLS JAMES S ET AL: "Development of a scintillation proximity assay for peroxisome proliferator-activated receptor gamma ligand binding domain.", ANALYTICAL BIOCHEMISTRY, vol. 257, no. 2, 15 March 1998 (1998-03-15), pages 112 - 119, XP002214931, ISSN: 0003-2697
- [Y] NOLTE R T ET AL: "LIGAND BINDING AND CO-ACTIVATOR ASSEMBLY OF THE PEROXISOME PROLIFERATOR-ACTIVATED RECEPTOR-GAMMA", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 395, 10 September 1998 (1998-09-10), pages 137 - 143, XP002906503, ISSN: 0028-0836
- [PXY] PARKS DEREK J ET AL: "Bile acids: Natural ligands for an orphan nuclear receptor.", SCIENCE (WASHINGTON D C), vol. 284, no. 5418, 21 May 1999 (1999-05-21), pages 1365 - 1368, XP000892009, ISSN: 0036-8075
- [XP] NIESOR ERIC J ET AL: "Synthetic farnesoid X receptor (FXR) agonists: A new class of cholesterol synthesis inhibitors and antiproliferative drugs", DRUGS OF THE FUTURE, vol. 24, no. 4, April 1999 (1999-04-01), &, pages 431 - 438, XP009028203, ISSN: 0377-8282
- [XY] DONG DIANE ET AL: "Heterodimer formation by retinoid X receptor: Regulation by ligands and by the receptor's self-association properties", BIOCHEMISTRY, vol. 37, no. 30, 28 July 1998 (1998-07-28), &, pages 10691 - 10700, XP001180506, ISSN: 0006-2960
- [XY] HAUSSLER M R ET AL: "THE VITAMIN D HORMONE AND ITS NUCLEAR RECEPTOR: MOLECULAR ACTIONS AND DISEASE STATES", JOURNAL OF ENDOCRINOLOGY, BRISTOL, GB, vol. 154, September 1997 (1997-09-01), pages S57 - S73, XP000867746, ISSN: 0022-0795
- [A] MINUCCI SAVERIO ET AL: "Retinoid X receptor (RXR) within the RXR-retinoic acid receptor heterodimer binds its ligand and enhances retinoid-dependent gene expression", MOLECULAR AND CELLULAR BIOLOGY, vol. 17, no. 2, 1997, &, pages 644 - 655, XP002274485, ISSN: 0270-7306
- See references of WO 0025134A1

Cited by

US9982008B2; US7994352B2; US8796249B2; US9540414B2; US9238673B2; US9732116B2; US10047117B2; US10155787B2; US10174073B2; US7786102B2; US8058267B2; US8377916B2; US8969330B2; US9732117B2; US10421772B2; USRE48286E

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