

Title (en)

RESTORING FUNCTION TO GONADOTROPIN RELEASING HORMONE RECEPTOR MUTANTS

Title (de)

WIEDERHERSTELLUNG DER FUNKTION VON MUTANTEN DES GONADOTROPIN-FREISETZUNGSHORMONREZEPTORS

Title (fr)

RESTAURATION DES FONCTIONS DES RECEPTEURS MUTANTS DE L'HORMONE DE LIBERATION DE LA GONADOTROPHINE

Publication

EP 1599494 A4 20100106 (EN)

Application

EP 04705679 A 20040127

Priority

- US 2004002290 W 20040127
- US 44369103 P 20030129

Abstract (en)

[origin: WO2004069859A2] Methods are disclosed for screening for agents that can at least partially restore function to several mutant gonadotropin releasing hormone receptors (GnRHRs), which can increase cell-surface expression of wild-type GnRHR, or both. In addition, methods are provided for using the identified agents for treating subjects having hypogonadism.

IPC 1-7

C07K 1/00

IPC 8 full level

C07K 14/72 (2006.01)

CPC (source: EP)

C07K 14/723 (2013.01)

Citation (search report)

- [XP] WO 03038036 A2 20030508 - UNIV OREGON HEALTH & SCIENCE [US], et al
- [X] JANOVIK, JO ANN ET AL: "Rescue of hypogonadotropic hypogonadism-causing and manufactured GnRH receptor mutants by a specific protein-folding template: misrouted proteins as a novel disease etiology and therapeutic target", JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM, 87 (7), 3255 -3262 CODEN: JCEMAZ; ISSN: 0021-972X, 2002, XP002960366
- [X] LEANOS-MIRANDA ALFREDO ET AL: "Receptor-misrouting: An unexpectedly prevalent and rescuable etiology in GnRHR-mediated hypogonadotropic hypogonadism", JOURNAL OF CLINICAL ENDOCRINOLOGY AND METABOLISM, vol. 87, no. 10, October 2002 (2002-10-01), pages 4825 - 4828, XP002556612, ISSN: 0021-972X
- [X] CONN P MICHAEL ET AL: "Protein origami: therapeutic rescue of misfolded gene products.", MOLECULAR INTERVENTIONS SEP 2002, vol. 2, no. 5, September 2002 (2002-09-01), pages 308 - 316, XP002556613, ISSN: 1543-2548
- [XP] JANOVIK J A ET AL: "Structure-Activity Relations of successful Pharmacologic Chaperones for rescue of Naturally occurring and manufactured mutants of the gonadotropin-releasing hormone receptor", JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, US, vol. 305, no. 2, 11 February 2003 (2003-02-11), pages 608 - 614, XP008107968, ISSN: 0022-3565
- See references of WO 2004069859A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004069859 A2 20040819; WO 2004069859 A3 20090402; AU 2004208990 A1 20040819; AU 2004208990 B2 20101111;
CA 2514449 A1 20040819; EP 1599494 A2 20051130; EP 1599494 A4 20100106

DOCDB simple family (application)

US 2004002290 W 20040127; AU 2004208990 A 20040127; CA 2514449 A 20040127; EP 04705679 A 20040127