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(54) Title: METHODS AND COMPOSITIONS FOR TREATING ERECTILE DYSFUNCTION

(57) Abstract: The present invention provides for a method for the treatment of erectile dysfunction in a male or female human subject in need of such treatment comprising administration of a therapeutically effective amount of an agonist of the melanocortin receptor in combination with a therapeutically effective amount of a cyclic-GMP-specific phosphodiesterase inhibitor or an alpha-adrenergic receptor antagonist. Further, the present invention provides for pharmaceutical compositions useful in the methods of the present invention, as well as a method of manufacture of a medicament useful for treating erectile dysfunction.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/08, 31/415, 31/505

US CL : 514/11

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. : 514/11

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

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

WEST CAS/STN WPIDS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	WO 99/30697 A2 (PFIZER PRODUCTS INC.) 24 June 1999 (24.06.99), see entire document (kit of sildenafil and E.G. Yohimbine).	1-24
Y, P	WO 99/59584 A1 (SCHERING CORPORATION) 25 November 1999 (25.11.99), see entire document (kit of sildenafil, Yohimbine, Phentocamine, etc.).	1-24
Y, P	WO 99/60985 A2 (SAINT LOUIS UNIVERSITY) 02 December 1999 (02.12.99), see entire document (mixture of Yohimbine, phentolamine, papaverine).	1-24

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*G* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	WO 99/30718 A2 (SCOTT) 24 June 1999 (24.06.99), see entire document (impotence combination of prostaglandins, anaesthetics instead of "VIAGRA" (SILDENAFIL).	1-24
Y	WO 96/16657 A1 (PFIZER LIMITED) 06 June 1996 (06.06.96), see entire document (sildenafil-like pyrazo pyrimidinones, or alternatively, erectile dysfunction combinations of papaverine, phentolamine and prostaglandins).	1-24
Y	US 6,037,346 A (DOHERTY, JR. et al.) 14 March 2000 (14.03.00), see entire document (kit of sildenafil and yohimbines).	1-24
Y, P	US 6,007,824 A (DUCKETT et al.) 28 December 1999 (28.12.99), see entire document ("VIAGRA" or synergistic natural sexual dysfunction agent combinations).	1-24
Y, P	US 5,994,294 A (GARVEY et al.) 30 November 1999 (30.11.99), see entire document (erectile dysfunction combination of yohimbine and phentolamines).	1-24
Y, P	US 5,962,528 A (SCOTT) 05 October 1999 (05.10.99), see entire document (impotence treating combination of prostaglandins).	1-24
Y, P	US 5,932,538 A (GARVEY et al.) 03 August 1999 (03.08.99), see entire document (erectile combination of yohimbine and pitewtolamine).	1-24
Y	US 5,731,339 A (LOWREY) 24 March 1998 (24.03.98), see entire document (impotence combination of yohimbine and phentolamine).	1-24
Y	US 5,567,706 A (GAVRAS) 22 October 1996 (22.10.96), see entire document (combination of yohimbine and known impotence adrenoceptor agents).	1-24
Y	US 5,576,290 A (HADLEY) 19 November 1996 (19.11.96), see entire document.	1-24
Y, E	US 6,051,555 A (HADLEY) 18 April 2000 (18.04.00), see entire document.	1-24

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 94/28902 A1 (PFIZER LIMITED) 22 December 1994 (22.12.94), see entire document.	1-24
Y, P	WO 99/66933 A1 (NEW MILLENNIUM PHARMACEUTICALS RESEARCH, INC.) 29 December 1999 (29.12.99), see entire document.	1-24
Y, P	EP 0 960 621 A2 (PFIZER INC.) 01 December 1999 (01.12.99), see entire document.	1-24
Y, P	WO 97/03675 A1 (LABORATOIRE GLAXO WELLCOME S.A.) 06 February 1997 (06.02.97), see entire document.	1-24