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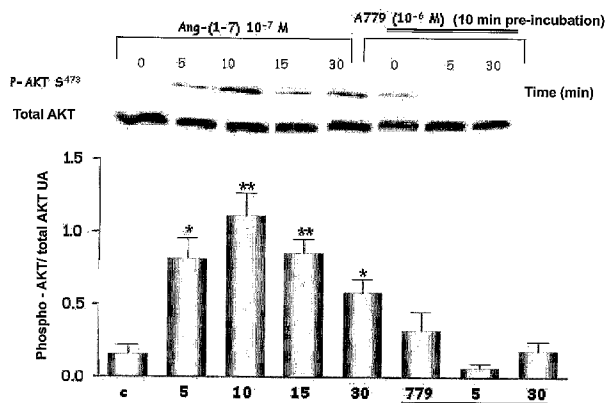
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- (71) Applicant (for all designated States except US): UNIVER-
SIDADE FEDERAL DE MINAS GERAIS [BR/BR]; Av.
Antonio Carlos, 6627 - Pampulha, 31270-901 Belo Hori-
zonte, MG (BR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SOUZA DOS
SANTOS, Robson Augusto [BR/BR]; Rua Castelo de
Lisboa, 489/301- Castelo, 31330340 Belo Horizonte- MG
(BR). VELOSO BRANT PINHEIRO, Sérgio [BR/BR];
Rua Alameda dos Cristais, 79, Bairro Vila Del Rei,
34000-000 Nova Lima - MG (BR). DE FARIA E SILVA,

Raphael [BR/BR]; Rua Caldas, 76/601 Bairro Sion,
30310-560 - Belo Horizonte- MG (BR). SILVA LULA,
Ivana [BR/BR]; Rua Minueto, 49- Bairro Sta Amélia,
30560-470- Belo Horizonte- MG (BR). BARROS DE
SOUSA, Frederico [BR/BR]; Rua Flor de Fogo, 65/302
B1- Bairro Liberdade, 31270-217 - Belo Horizonte- MG
(BR). FRÉZARD, Frédéric Jean Georges [BR/BR]; Rua
Tavares Bastos, 343/102, Bairro Cidade Jardim, 30380-040
Belo Horizonte- MG (BR). DOS REIS, Adelina Martha
[BR/BR]; Rua Des. Paula Mota, 660/301, Bairro Ouro
Preto, 31310-340 Belo Horizonte- MG- (BR). DE
FRANCA, Luiz Renato [BR/BR]; Rua Frei Leopoldo,
173/204- Bairro Ouro Preto, 31310-190 Belo Horizonte -
MG - (BR). FERREIRA, Anderson, José [BR/BR]; Rua
Castelo de Lamego, 453/101- Bairro Castelo, 31330-130
Belo Horizonte- MG (BR). SINISTERRA, Rubén Dario
[BR/BR]; Rua João Antônio Cardoso, 64/301- Bairro
Ouro Pret, o, 31310-390 Belo Horizonte- MG (BR).
CAMPAGNOLE-SANTOS, Maria José [BR/BR]; Rua
Dep. Wilson Tanure, 48- Bairro St. Amélia, 31560-240
Belo Horizonte - MG (BR). DE OLIVEIRA SAMPAIO,
Walkyria Neyde [BR/BR]; Rua Costa Senna, 820- Bairro
Padre Estáquio, 30720-350 Belo Horizonte- MG - (BR).
DE CASTRO LEAL, Marcelo [BR/BR]; Rua Carangola,
32/52- Bairro Sto. Antonio, 30330-240 Belo Horizonte
- MG - (BR). KAPPES BECKER, Lenice [BR/BR];

[Continued on next page]

(54) Title: USE OF MAS G-PROTEIN-COUPLED RECEPTOR AGONISTS AND ANTAGONISTS AS APOPTOTIC ACTIVITY MODULATORS FOR PREVENTION AND TREATMENT OF DISEASES



(57) Abstract: The present invention is characterized by the use of Mas G- protein-coupled receptor agonists and antagonists as apoptotic activity modulators for study, prevention and treatment of diseases. It is further characterized by the use of Mas G- protein-coupled receptor agonist and antagonists for modulation of the apoptotic activity involving alterations in the activity of the protein kinase B/Akt. Another characteristic of the invention is the use of Mas G-protein-coupled receptor agonists and antagonists, including the Ang- (1-7) peptide and its analogues, agonists and antagonists, either peptidic or non-peptidic, as modulators of apoptotic activity for study, prevention and treatment of degenerative diseases of organs and systems, as an auxiliary measure for organs transplantation, treatment with embryonic, non- embryonic stem cells, re-implantation of organs and tissues and other treatments that need temporary or chronic reduction of the apoptotic activity, not limitative. The invention further claims the use of Mas G-protein-coupled receptor agonists and antagonists, including the Angiotensin-(1-7) peptide and its analogues, agonists and antagonists, either peptidic or non-peptidic, formulated with pharmaceutically and pharmacologically acceptable excipients or carriers, as modulators of the apoptotic activity.

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Rua Altamiro Avelina Soares, 190-202-, Bairro Castelo,
31330-130 Belo Horizonte- MG (BR).

(74) **Agent:** DANNEMANN, SIEMSEN, BIGLER &
IPANEMA MOREIRA; Caixa Postal 2142, Rua Marquês
de Olinda, 70, 2251-040- Rio de Janeiro-RJ (BR).

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/203834 A1 (TALLANT E ANN [US] ET AL) 30 October 2003 (2003-10-30) claims paragraphs [0007] - [0010], [0105] - [0109]; figure 16; example 8	1-31
X	WO 03/039434 A2 (UNIV FED DE MINAS GERAIS UFMG [BR]; MILLAN RUBEN DARIO SINISTERRA [BR]) 15 May 2003 (2003-05-15) page 1, line 6 - line 15 claims page 12, line 31 - page 14, line 11 ----- -/--	1-31

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See patent family annex.

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European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Böhmerova, Eva

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	<p>COSTA A P R ET AL: "Angiotensin-(1-7): A novel peptide in the ovary" ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 144, no. 5, May 2003 (2003-05), pages 1942-1948, XP002405175 ISSN: 0013-7227 the whole document</p>	1-31
Y	<p>FERRARIO C M ET AL: "Counterregulatory Actions of Angiotensin-(1-7)" HYPERTENSION, vol. 30, no. 3, September 1997 (1997-09), pages 535-541, XP000864325 ISSN: 0194-911X the whole document</p>	1-31
Y	<p>HEITSCH HOLGER ET AL: "Angiotensin-(1-7)-stimulated nitric oxide and superoxide release from endothelial cells" HYPERTENSION (BALTIMORE), vol. 37, no. 1, January 2001 (2001-01), pages 72-76, XP002419965 ISSN: 0194-911X abstract; figure 1</p>	1-31
Y	<p>OUDOT A ET AL: "Pharmacological concentration of angiotensin-(1-7) activates NADPH oxidase after ischemia-reperfusion in rat heart through AT1 receptor stimulation" REGULATORY PEPTIDES, ELSEVIER SCIENCE BV, NL, vol. 127, no. 1-3, 15 April 2005 (2005-04-15), pages 101-110, XP004744987 ISSN: 0167-0115 abstract; figure 5</p>	1-31

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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.
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Y	<p>----- YOUNG D ET AL: "CHARACTERIZATION OF THE RAT MAS ONCOGENE AND ITS HIGH-LEVEL EXPRESSION IN THE HIPPOCAMPUS AND CEREBRAL CORTEX OF RAT BRAIN" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, DC, US, vol. 85, no. 14, 1 July 1988 (1988-07-01), pages 5339-5342, XP000113792 ISSN: 0027-8424 page 5314, left-hand column, last paragraph - right-hand column, paragraph 1; figure 3</p>	1-31
P,X	<p>----- WO 2006/005470 A2 (BAYER HEALTHCARE AG [DE]; GOLZ STEFAN [DE]; BRUEGGEMEIER ULF [DE]; GEE) 19 January 2006 (2006-01-19) page 1, line 2 - line 6 page 28, line 14 - page 29, line 11 page 57, line 27 - page 62, line 15 claims</p>	1-31
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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