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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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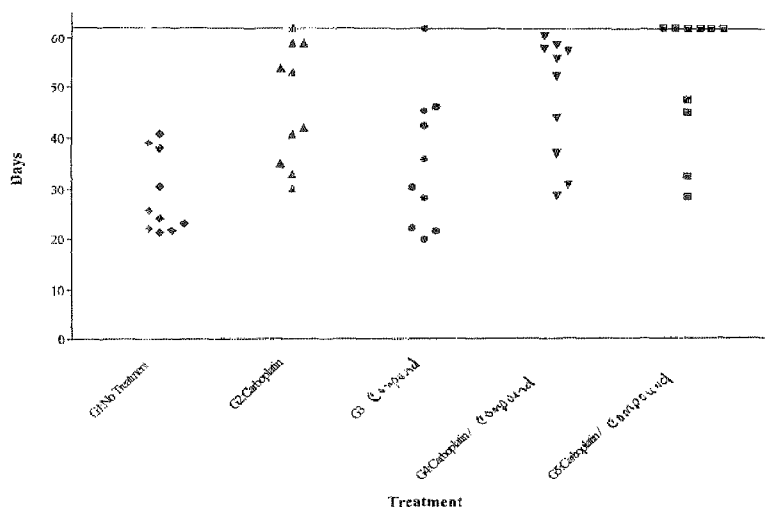
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(54) Title: TPO MIMETIC PEPTIDE FOR PREVENTING HEMATOLOGICAL DISORDER ASSOCIATED WITH CANCER TREATMENT

Figure 1. Individual Times to Endpoint for Mice in the HT29-e141 Study



(57) Abstract: The present invention provides a method for treating hematological disorders such as anemia and thrombocytopenia, whereby a TPO mimetic peptide compound is administered using a specified dosing regimen. The dosing regimen involves the administration of the TPO mimetic peptide compound within a specified time frame surrounding administration of a chemotherapeutic agent. The dosing regimen also involves monitoring subject response in order to determine future course of treatment.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2009/045658

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61K38/10 A61P35/00

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)
A61K A61P

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 practical, search terms used)

EPO-Internal, BIOSIS, CHEM ABS Data, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/119384 A1 (YURKOW EDWARD J [US] ET AL) 22 May 2008 (2008-05-22) cited in the application examples; compound 1 -----	1-24
X	WO 2007/094781 A1 (JANSSEN PHARMACEUTICA NV [BE]; YURKOW EDWARD J [US]; MACDONALD BRIAN R) 23 August 2007 (2007-08-23) claims; examples; compound 1 -----	1-24
X	US 2006/040866 A1 (MACDONALD BRIAN R [US] ET AL) 23 February 2006 (2006-02-23) cited in the application claims 9,18-25; examples; compound 1 ----- -/--	1-24



Further documents are listed in the continuation of Box C.



See patent family annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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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.
X	DE SERRES M ET AL: "Pharmacokinetics and hematological effects of the PEGylated thrombopoietin peptide mimetic GW395058 in rats and monkeys after intravenous or subcutaneous administration" STEM CELLS, ALPHAMED PRESS, DAYTON, OH, US, vol. 17, no. 6, 1 January 1999 (1999-01-01), pages 316-326, XP002421200 ISSN: 1066-5099 abstract -----	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/045658

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2008119384 A1	22-05-2008	NONE	
WO 2007094781 A1	23-08-2007	AU 2006338308 A1 CA 2642389 A1 CN 101374540 A EA 200870261 A1 EP 1984014 A1 JP 2009526841 T	23-08-2007 23-08-2007 25-02-2009 27-02-2009 29-10-2008 23-07-2009
US 2006040866 A1	23-02-2006	AR 055114 A1 AU 2006280230 A1 CA 2618958 A1 CN 101287749 A EA 200800535 A1 EC SP088169 A EP 1957517 A2 GT 200600361 A JP 2009504650 T KR 20080048026 A SV 2008002648 A WO 2007021572 A2 UY 29736 A1	08-08-2007 22-02-2007 22-02-2007 15-10-2008 29-08-2008 26-03-2008 20-08-2008 14-03-2007 05-02-2009 30-05-2008 28-11-2008 22-02-2007 29-12-2006