



- (51) **International Patent Classification:**
A61K 38/06 (2006.01) *A61P 1/04* (2006.01)
- (21) **International Application Number:**
PCT/RU2012/000035
- (22) **International Filing Date:**
26 January 2012 (26.01.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
2011103052 27 January 2011 (27.01.2011) RU
201101622 12 December 2011 (12.12.2011) EA
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

22 November 2012

(54) **Title:** PHARMACEUTICAL COMPOSITION COMPRISING THE PEPTIDE GLU-ASP-GLY AND USE FOR TREATING *HELICOBACTER PYLORI* INDUCED GASTRODUODENAL DISEASES

(57) **Abstract:** The invention relates to medicinal means on the basis of a peptide pharmaceutical composition for treatment of *Helicobacter pylori*-induced gastroduodenal diseases. The technical result of the invention consists in the peptide glutamyl-aspartylglycine with formula: H-Glu-Asp-Gly-OH revealing a specific activity manifested in an inhibiting effect on mitochondrial mechanisms of *Helicobacter pylori*-induced apoptosis in gastric epitheliocytes, which hinders the *Helicobacter pylori* influence on the cells and reduced apoptosis induction. Claimed is a pharmaceutical composition having a specific activity manifested in an inhibiting effect on mitochondrial mechanisms of *Helicobacter pylori*-induced apoptosis in gastric epitheliocytes, characterized in that it comprises an amount, effective on *Helicobacter pylori*, of the peptide with formula H-Glu-Asp-Gly-OH as the active substance, and a pharmaceutically acceptable carrier, as well as a use of the pharmaceutical composition for producing a means for treatment of *Helicobacter pylori*-induced gastroduodenal diseases, comprising an amount, effective on *Helicobacter pylori*, of the peptide with formula H-Glu-Asp-Gly-OH as the active substance, and a pharmaceutically acceptable carrier. According to the invention, the means comprised the active substance in the amount of 1 µg/kg to 10 µg/kg. According to the invention, the means exists in the form suitable for oral or parenteral administration. Claimed is a method for treatment of *Helicobacter pylori*-induced gastroduodenal diseases by inhibiting *Helicobacter pylori*-induced apoptosis in gastric epitheliocytes comprising administering to a subject in need thereof a means comprising an amount, effective on *Helicobacter pylori*, of the peptide with formula H-Glu-Asp-Gly-OH in the dose of 1 µg to 10 µg per 1 kg of body weight orally, daily, 3 times a day for 10-20 days, or parenterally, daily, once a day, for 10 days. According to the invention, the administration is performed orally or parenterally.



INTERNATIONAL SEARCH REPORT

International application No

PCT/RU2012/000035

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61K38/06 A61P1/04
 ADD.

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 practicable, search terms used)

EPO-Internal, BIOSIS, 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.
A	TUTEL'YAN V A ET AL: "Physiological role of short peptides in nutrition", BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE 20030101 US LNKD-DOI:10.1023/A:1023467622252, vol. 135, no. 1, 1 January 2003 (2003-01-01), pages 1-5, XP002682142, ISSN: 0007-4888 see page 4	1-9
X	----- WO 2007/136295 A2 (OBSHESTVO S OGRANICHENNOI OTV [RU]; KHAVINSON VLADIMIR KHATSKELEVI [R]) 29 November 2007 (2007-11-29) cited in the application see claims and examples -----	1-3



Further documents are listed in the continuation of Box C.



See patent family annex.

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"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

"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

"&" document member of the same patent family

Date of the actual completion of the international search

5 September 2012

Date of mailing of the international search report

21/09/2012

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/RU2012/000035

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007136295 A2	29-11-2007	EA 200700178 A1	28-12-2007
		EP 2021353 A2	11-02-2009
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		RU 2304444 C1	20-08-2007
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