

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ZED-P03939WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/050085	International filing date (<i>day/month/year</i>) 2 January 2018 (02-01-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 27 December 2016 (27-12-2016)
Applicant ZEDIRA GMBH		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
 as suggested by the applicant
 as selected by this Authority, because the applicant failed to suggest a figure
 as selected by this Authority, because this figure better characterizes the invention
- b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/050085

A. CLASSIFICATION OF SUBJECT MATTER					
INV.	C07K5/11	C07D241/04	C07K5/113	C07K7/06	C07K5/103
	C07K5/117	C07K5/078	C07K5/02	C07K5/093	A61P7/02
	A61P1/00				

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) C07K C07D A61K

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, CHEM ABS Data, 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.
X	WO 2008/055488 A1 (ZEDIRA GMBH [DE]; OERTEL KAI [DE]) 15 May 2008 (2008-05-15)	1,15
A	and respective intermediates of the example compounds; page 26, line 10 - page 27, line 10	2-12
X	PÖHNER CLAUDIA ET AL: "Chemoselective coupling of sugar oximes and [alpha]-ketoacids to glycosyl amides and N-glycopept", TETRAHEDRON LETTERS, vol. 55, no. 14, 26 February 2014 (2014-02-26), pages 2197-2200, XP028835475, ISSN: 0040-4039, DOI: 10.1016/J.TETLET.2014.02.056 compound 23	1,15

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

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"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)

"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

"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

"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 22 March 2018	Date of mailing of the international search report 03/04/2018
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Schleifenbaum, A
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INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/050085

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>MARKUS OBKIRCHER ET AL: "Photochemical Synthesis of N-Substituted 3-Hydroxy-2-pyrrolidinones", SYNLETT, no. 7, 1 January 2005 (2005-01-01), pages 1182-1184, XP055403250, DE ISSN: 0936-5214, DOI: 10.1055/s-2005-865229 compounds 5b, 5c</p> <p style="text-align: center;">-----</p>	1,15
X	<p>WOLFGANG SEUFERT ET AL: "Cyclizations of [alpha]-Keto Ester Modified Aspartic Acids in Peptides", SYNLETT, vol. 2006, no. 11, 1 July 2006 (2006-07-01), pages 1774-1776, XP055403247, DE ISSN: 0936-5214, DOI: 10.1055/s-2006-944203 compounds 6-9</p> <p style="text-align: center;">-----</p>	1,15
X	<p>RUSSELL J. COX ET AL: "Synthesis and in vitro enzyme activity of peptide derivatives of bacterial cell wall biosynthesis inhibitors", ROYAL CHEMICAL SOCIETY. JOURNAL. PERKIN TRANSACTIONS 1, vol. 1, no. 13, 1 January 2000 (2000-01-01), pages 2023-2036, XP055403254, GB ISSN: 1470-4358, DOI: 10.1039/b002701o compounds 19, 20, 22a, 25a, 26, 29, 30</p> <p style="text-align: center;">-----</p>	1,15
X	<p>LASZLO OTVOS JR. ET AL: "The flexible termini of conantokin G define its interactions with NMDA receptors", LETTERS IN PEPTIDE SCIENCE, vol. 4, no. 2, 1 April 1997 (1997-04-01), pages 85-93, XP055403259, NL ISSN: 0929-5666, DOI: 10.1007/BF02443519 table 1</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">-/--</p>	1,15

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2018/050085

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DOYLE P M ET AL: "Peptides incorporating electrophilic glutamine analogues as potential transglutaminase inhibitors", BIOCHEMICAL SOCIETY TRANSACTIONS, PORTLAND PRESS LTD, GB, vol. 18, no. 6, 1 December 1990 (1990-12-01), pages 1318-1320, XP008090045, ISSN: 0300-5127 page 1319, left-hand column, line 4 - line 10</p> <p style="text-align: center;">-----</p>	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/050085

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008055488	A1	15-05-2008	
		AU 2007317045 A1	15-05-2008
		CA 2662876 A1	15-05-2008
		CN 101563359 A	21-10-2009
		CN 105218632 A	06-01-2016
		DE 102006052755 A1	15-05-2008
		DK 2086993 T3	20-04-2015
		EP 2086993 A1	12-08-2009
		ES 2538262 T3	18-06-2015
		HK 1219745 A1	13-04-2017
		IL 198588 A	31-03-2016
		JP 5528113 B2	25-06-2014
		JP 2010509195 A	25-03-2010
		PT 2086993 E	30-06-2015
		RU 2009121559 A	20-12-2010
		SI 2086993 T1	30-06-2015
		US 2011229568 A1	22-09-2011
		WO 2008055488 A1	15-05-2008
