

## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Classification of the application (IPC): A23L 27/20, C07H 21/04, C12N 1/15

Technical fields searched (IPC): A23L, C07H, C12N

DOCUMENTS CONSIDERED TO BE RELEVANT						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim				
Х	DE 3048318 A1 (SCHERING AG [DE]) 22 July 1982 (1982-07-22) * claim 32 *	1-5				
х	<b>ILISZ I ET AL</b> : "Enantioseparation of @b-substituted tryptophan analogues with modified cyclodextrins by capillary zone electrophoresis" <i>JOURNAL OF CHROMATOGRAPHY A, ELSEVIER, AMSTERDAM, NL</i> , 10 April 2009 (2009-04-10), vol. 1216, no. 15, DOI: 10.1016/J.CHROMA.2009.01.083, ISSN: 0021-9673, pages 3360-3365, XP026010860 * the whole document *	1-5				
Х	<b>VEKES E ET AL</b> : "Indirect high-performance liquid chromatographic separation of stereoisomers of @b-alkyl-substituted amino acids by the application of (S)-N-(4-nitrophenoxycarbonyl)phenylalanine methoxyethyl ester as chiral derivatizing agent" <i>JOURNAL OF CHROMATOGRAPHY A, ELSEVIER, AMSTERDAM, NL</i> , 08 March 2002 (2002-03-08), vol. 949, no. 1-2, DOI: 10.1016/S0021-9673(01)01455-8, ISSN: 0021-9673, pages 125-139, XP004339456 * the whole document *	1-5				
Х	NEMES CSABA ET AL: "A Convenient Synthesis of Conformationally Constrained [beta]-Substituted Tryptophans" <i>TETRAHEDRON</i> , 25 May 2000 (2000-05-25), vol. 56, no. 30, DOI: 10.1016/S0040-4020(00)00446-4, ISSN: 0040-4020, pages 5479-5492, XP085022585 * Scheme 1;the whole document *	1-5				
Х	<b>BRUNCKO MILAN ET AL</b> : "Cyclic Tautomers of Tryptophan: Enantio-and Diastereoselective Synthesis of /^-Substituted and cgS-Disubstituted Derivatives of Tryptophan" <i>J. ORG. CHEM</i> , 01 January 1994 (1994-01-01), vol. 59, pages 4239-4249, XP055920656 * page 6, left-hand column *	1-5				

The supplementary search report has been based on the last set of claims valid and

vailable at the start of the search.									
Place of search	Date of completion of the search	Examiner							
Munich	16 May 2022	West, Nuki							
CATEGORY OF CITED DOCUMENTS									
X: particularly relevant if taken alone	P: intermediate docume	nt							
Y : particularly relevant if combined with another	T: theory or principle un	derlying the invention							
document of the same category	E: earlier patent docume	ent, but published on, or after the filing date							
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0: non-written disclosure	L: document cited for of	hor roseone							

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### EP 3 621 461 A4



### SUPPLEMENTARY EUROPEAN SEARCH REPORT

# LACK OF UNITIY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5

A beta-substituted amino acid according to formula (II)

2. claims: 6-13

A method of manufacturing a beta-substituted amino acid according to formula (I)

3. claims: 14-16

A tryptophan synthase beta-subunit comprising an amino sequence according to SEQ ID NO: 1 and further comprising a L161A mutation.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-5

The supplementary search report has been based on the last set of claims valid and vailable at the start of the search

Place of search Munich	Date of completion of the search 16 May 2022	<sub>Examiner</sub> West, Nuki						
CATEGORY OF CITED DOCUMENTS								
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document of the same category		ent, but published on, or after the filing date						
A: technological background	D: document cited in the	application						

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& : member of the same patent family, corresponding document

- L: document cited for other reasons

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# ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number: EP 18 79 51 35

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 16-05-2022 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 3048318	A1	22-07-1982	DE	3048318 A1	22-07-1982
			SU	1318166 A3	15-06-1987
			ZA	818739 B	24-11-1982

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82

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