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(54) Title: METHODS FOR IDENTIFYING INHIBITORS OF METHIONINE AMINOPEPTIDASES

(57) Abstract: Methods are provided for detecting methionine aminopeptidase (MAP) activity and for detecting inhibitors of MAP. The methods utilize a peptide comprising an N-terminal methionine which can be cleaved from the peptide by MAP, and a C-terminal detection moiety which is released by a second peptidase only if the N-terminal methionine has been cleaved from the peptide. When the peptide is combined with MAP and the second peptidase, the detection moiety is released, while the addition of a MAP inhibitor will inhibit the release of the detection moiety. Reaction mixes, peptides, and kits which are useful for practicing the methods are also provided.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/41146

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : Please See Extra Sheet.

US CL : 435/6, 24, 69.1, 69.4; 514/12, 15, 44; 530/350

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)

U.S. : 435/6, 24, 69.1, 69.4; 514/12, 15, 44; 530/350

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)

WEST, CHEMICAL ABSTRACTS, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 5,985,273 A (REED et al.) 16 November 1999.	1-26
T, A	US 6,184,020 B1 (BLINKOVSKY et al.) 06 February 2001.	1-26
A	WO 99/18856 A1 (CYTOVIA, INC.) 22 April 1999.	1-26
A	IKEHARA, Y. et al. Depeptidyl-Peptidase IV from Rat Liver. Methods in Enzymology. 1994, Vol. 244, pages 215-227.	1-26

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

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier document published on or after the international filing date	"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
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"Q" 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	

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