Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 (US).

Agents: LILLIS, Marcella et al.; Novartis Vaccines and Diagnostics Inc., P.O. Box 8097, Emeryville, California 94662-8097 (US).


PRION AMINO ACID SEQUENCES

Amino Acid Sequence of a Full Length Human Prion Protein:

SEQ ID NO. 1: MANLGCWMLVLFVATAWSDLGCKRRPKPGGWGN
TGGSRYPQGQGSPGGNGRRYPQGQPGQGGGGWQPHGGQHGGGWWQPHGGG
GWQPHGGWQPHGGWGQGGGGTWQSNKPSKPRK
KHAGAAGAAGAVVGGLGGYMLGSAAMSRRPHIFDSYEDRY
YRNMRHPQVNYRPMDEYSNQNNVHDCVNTIKQHTV
TTKKGENFTETDVKMMERVVEQMCITQYERESQAAYQRG
SSMVLFSSPVILLISFLFLV

Amino Acid Sequence of a Full Length Mouse Prion Protein:

SEQ ID NO. 2: MANLGYWLALFVMTWEDVGLCKRRPKPGGW
NTGGSRPQGGSPGGNRRYPQGQGGGGWQPHGGQHGGG
WQPHGGWQPHGGGWWQGGGTQHQQWNKPSKPTNKLH
VAGAAGAAAGAVVGGLGGYMLGSAAMSRRPHIFDSYEDRY
RENNYRPQVNYRPMDEYSNQNNVHDCVNTIKQHTV
TTKKGENFTETDVKMMERVVEQMCITQYERESQAAYQRD
RSMVLFSSPVILLISFLFLV

Abstract: Peptide reagents that interact preferentially with the PrP\textsuperscript{Sc} form of the prion protein are described. In addition, methods of using these peptide reagents in combination with peptide probes, which aggregate in response to binding pathogenic prion proteins and that can be used for detection of pathogenic prion proteins, are disclosed. Methods of using the peptide reagents, antibodies to the reagents, prion motif-grafted hybrid polypeptides, and peptide probes for detection, diagnosis, purification, therapy and prophylaxis for prions and prion-associated diseases are also described.
Published: with international search report

Date of publication of the international search report:
29 March 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8): A61K 39/00(2007.01); C12N 15/00(2007.01)

USPC: 435/69.3; 530/300
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.: 435/69.3; 530/300

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)
EAST, MEDLINE, prion, detection, aggregation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>Y</td>
<td>WO 02/097444 A2 5 December 2002, page 8 and Figure 13 and 14.</td>
<td>1-8</td>
</tr>
<tr>
<td>A</td>
<td>TCHERKASSKAYA O. et al. J. of Biomolecular Structure &amp; Dynamics, December 20003,</td>
<td>6</td>
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<tr>
<td></td>
<td>Vol. 21, p. 353-365, see Table 1.</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search: 20 November 2006 (20.11.2006)

Date of mailing of the international search report: 08 JAN 2007

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 272-3201

Authorized officer
Agnieszka Boesen Ph.D.
Telephone No. 571-272-1600

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