(54) Title: PROCESSES FOR PREPARATION OF MAYTANSINOL

(57) Abstract: The present invention describes the preparation of maytansinol by methods that minimize processing steps, and reduce solvent volumes, making the process more efficient, and scaleable. This process comprises a step of converting bridged acetals of maytansinol to maytansinol. The simplified processing also aids in lowering the potential for human exposure to chemicals. Also provided is an isolated C3 to C9 bridged acetal of maytansinol.
**INTERNATIONAL SEARCH REPORT**

**A CLASSIFICATION OF SUBJECT MATTER**

IPC(8) C07D 491/12( 2006 01),C07D 498/006( 2006 01)

USPC 440456

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 540456

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)

**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>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>U S 6,333,410 (Chan et al ) 25 Dec 2001 (25 12 2001), columns 8-14</td>
<td>1-34</td>
</tr>
</tbody>
</table>

**Further documents are listed in the continuation of Box C**

**See patent family annex**

- **"A"** document defining the general state of the art which is not considered to be of particular relevance
- **"E"** earlier application or patent 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 mean
- **"P"** document published prior to the international filing date but later than the priority date claimed

**Date of the actual completion of the international search**

04 July 2007 (04 07 2007)

**Date of mailing of this report**

13 SEP 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) 273-3201

**Telephone**

571-272-2908

Form PCT/ISA/210 (second sheet) (Ap1 2005)