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13 September 2007

(54) Title: APOPTOSIS-INDUCING ANTINEOPLASTIC SILVER (I) COORDINATION COMPLEXES

(57) Abstract: The present invention describes chemotherapeutic compositions, a method for making the same, and methods for
inducing apoptosis in tumor cells and/or inhibiting tumors. The compositions are metal coordination complexes of a cytotoxic metal,
such as silver(I) and a chiral α-organic acid, such as tartaric acid, in a pharmaceutical carrier.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

| IPC(8): | A61K 31/555 (2007.01) |
| USPC:  | 514/184 |

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) |
| IPC(8): A61K 31/555 | USPC: 514/184 |

| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched |
| IPC(8): A61K 31/28 (2007.01) | USPC: 514/185; 514/492; 514/495 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (USPTO, PGPB, EPAB, JPO); DialogPRO (Engineering); Google Patents; PAIR; Search Terms Used:

- metal complex, apoptosis, cytotoxic metal, anti-tumor agents, treatment of hepatitis, chiral organic acid, amino acids

**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>Y</td>
<td>Batarseh, Anomaly and correlation of killing in the therapeutic properties of silver(I)</td>
<td>1-33</td>
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<tr>
<td></td>
<td>54, 546548, 08 July 2004 (08.07.2004), entire document</td>
<td></td>
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<tr>
<td>Y</td>
<td>Farrell, Metal Complexes as Drugs and Chemotherapeutic Agents, Volume 11, Kluwer</td>
<td>10, 17-20</td>
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<tr>
<td>Y</td>
<td>US 5,504,955 A (Hsu) 2 April 1996 (02.04.1996), entire document, claim 2</td>
<td>7-9</td>
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</tbody>
</table>

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

- **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)
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