Topoisomerases are enzymes that regulate the overwinding or underwinding of DNA. The winding problem of DNA arises due to the intertwined nature of its double-helical structure. Topoisomerases are isomerase enzymes that act on the topology of DNA. Type I topoisomerase cuts one strand of a DNA double helix, relaxation occurs, and then the cut strand is reannealed. Type I topoisomerases are subdivided into two subclasses: type IA topoisomerases, which share many structural and mechanistic features with the type II topoisomerases, and type IB topoisomerases, which utilize a controlled rotary mechanism. Type II topoisomerase cuts both strands of one DNA double helix, pass another unbroken DNA helix through it, and then reanneal the cut strands. This class is also split into two subclasses: type IIA and type IIB topoisomerases, which possess similar structure and mechanisms.
## Topoisomerase Inhibitors & Modulators

| 9-amino-CPT  
(9-amino-20(S)-camptothecin) | Cat. No.: HY-100309 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> 9-Aminocamptothecin is a topoisomerase I inhibitor with potent anticancer activity.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 98.89%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Phase 2</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Aclacinomycin A hydrochloride  
(Aclarubicin hydrochloride) | Cat. No.: HY-N2306A |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Aclacinomycin A hydrochloride (Aclarubicin hydrochloride), a fluorescent molecule and the first described non-peptidic inhibitor showing discrete specificity for the CTRL (chymotrypsin-like) activity of the 20S proteasome [1]. Aclacinomycin A hydrochloride is also a dual inhibitor of...</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 98.08%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Launched</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Aldoxorubicin  
(INNO-206; DOXO-EMCH) | Cat. No.: HY-16261 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Aldoxorubicin (INNO-206) is an albumin-binding prodrug of doxorubicin, which is released from albumin under acidic conditions. Aldoxorubicin (INNO-206) has potent antitumor activities in various cancer cell lines and in murine tumor models.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 92.43%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Phase 3</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 5 mg, 10 mg, 50 mg, 100 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Amonafide  
(AS1413) | Cat. No.: HY-10982 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Amonafide is a topoisomerase II inhibitor and DNA intercalator that induces apoptotic signaling by blocking the binding of Topo II to DNA.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 99.75%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Phase 3</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Amrubicin  
(SM-5887; AMR) | Cat. No.: HY-80067 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Amrubicin (SM-5887) is a DNA topoisomerase II inhibitor, used for the research of cancer.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 98.0%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Launched</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 1 mg, 5 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Amrubicin hydrochloride  
(SM-5887 (hydrochloride); AMR (hydrochloride)) | Cat. No.: HY-80067A |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Amrubicin (hydrochloride) (SM-5887 (hydrochloride)) is a DNA topoisomerase II inhibitor, used for the research of cancer.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> &gt;98%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Launched</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 1 mg, 5 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Amsacrine  
(m-AMSA; acridinyl anisidide) | Cat. No.: HY-13551 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Amsacrine (m-AMSA) is an inhibitor of topoisomerase II, and acts as an antineoplastic agent which can intercalates into the DNA of tumor cells.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 99.98%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Launched</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 500 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Amsacrine hydrochloride  
(m-AMSA hydrochloride; acridinyl anisidide hydrochloride) | Cat. No.: HY-13551A |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Amsacrine hydrochloride (mAMSA hydrochloride) is an inhibitor of topoisomerase II, and acts as an antineoplastic agent which can intercalates into the DNA of tumor cells.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> &gt;98%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> Launched</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10 mg, 50 mg, 100 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Banoxantrone D12  
(AQ4N D12) | Cat. No.: HY-135625 |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Banoxantrone D12 (AQ4N D12) is the deuterium labeled banoxantrone. Banoxantrone is a novel bioreductive agent that can be reduced to a stable, DNA-affinic compound AQ4, which is a potent topoisomerase II inhibitor.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> &gt;98%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> No Development Reported</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 1 mg, 5 mg</td>
<td></td>
</tr>
</tbody>
</table>

| Banoxantrone D12 dihydrochloride  
(AQ4N D12 dihydrochloride) | Cat. No.: HY-13562AS |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Banoxantrone D12 dihydrochloride (AQ4N D12 dihydrochloride) is the deuterium labeled banoxantrone dihydrochloride. Banoxantrone is a novel bioreductive agent that can be reduced to a stable, DNA-affinic compound AQ4, which is a potent topoisomerase II inhibitor.</td>
<td></td>
</tr>
<tr>
<td><strong>Purity:</strong> 98.02%</td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Data:</strong> No Development Reported</td>
<td></td>
</tr>
<tr>
<td><strong>Size:</strong> 10mM x 1mL in DMSO, 1 mg, 5 mg</td>
<td></td>
</tr>
</tbody>
</table>
## Bioactivity

Banoxantrone dihydrochloride is a novel bioreductive agent that can be reduced to a stable, DNA-affinic compound AQ4, which is a potent topoisomerase II inhibitor.

### Purity
99.27%

### Clinical Data
No Development Reported

### Size
10 mM x 1 mL in Water, 5 mg, 10 mg, 25 mg

---

Belotecan hydrochloride (CKD-602)

### Bioactivity
Belotecan hydrochloride (CKD-602 hydrochloride), a Topoisomerase I inhibitor, is a synthetic and water-soluble camptothecin derivative.

### Purity
98.80%

### Clinical Data
Launched

### Size
10 mM x 1 mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

---

Berberine chloride (Natural Yellow 18 (chloride))

### Bioactivity
Berberine chloride is an alkaloid isolated from the Chinese herbal medicine Huanglian, as an antibiotic. Berberine chloride induces reactive oxygen species (ROS) generation and inhibits DNA topoisomerase. Antineoplastic properties [1].

### Purity
>98%

### Clinical Data
Launched

### Size
100 mg, 500 mg

---

Berberine chloride hydrate (Natural Yellow 18 (chloride hydrate))

### Bioactivity
Berberine chloride hydrate is an alkaloid isolated from the Chinese herbal medicine Huanglian, as an antibiotic. Berberine chloride hydrate induces reactive oxygen species (ROS) generation and inhibits DNA topoisomerase. Antineoplastic properties [1].

### Purity
99.56%

### Clinical Data
Launched

### Size
10 mM x 1 mL in DMSO, 5 g

---

Betulinic acid (Lupatic acid; Betulic acid)

### Bioactivity
Betulinic acid is a natural pentacyclic triterpenoid, acts as a eukaryotic topoisomerase I inhibitor, with an IC50 of 5 μM, and possesses anti-HIV, anti-malarial, anti-inflammatory and anti-tumor properties.

### Purity
98.18%

### Clinical Data
Phase 2

### Size
10 mM x 1 mL in DMSO, 100 mg, 200 mg, 500 mg

---

Bisantrene (CL216942)

### Bioactivity
Bisantrene is a highly effective antitumor drug, targets eukaryotic type II topoisomerases.

### Purity
96.35%

### Clinical Data
No Development Reported

### Size
10 mg, 25 mg, 50 mg

---

Campathecin (Camptothecin; (S)-(+)-Camptothecin; CPT)

### Bioactivity
Campathecin is a potent DNA enzyme topoisomerase I inhibitor, with an IC50 of 679 nM.

### Purity
98.26%

### Clinical Data
Phase 4

### Size
10 mM x 1 mL in DMSO, 100 mg, 200 mg, 500 mg

---

Daun02

### Bioactivity
Daun02 is a prodrug of the topoisomerase inhibitor Daunorubicin.

### Purity
98.56%

### Clinical Data
No Development Reported

### Size
10 mM x 1 mL in DMSO, 2 mg, 5 mg, 10 mg

---

Daunorubicin (RP 13057; Daunomycin; Rubidomycin)

### Bioactivity
Daunorubicin (RP 13057, Daunomycin, Rubidomycin) is a topoisomerase II inhibitor with potent antineoplastic activities. Daunorubicin inhibits DNA and RNA synthesis in sensitive and resistant Ehrlich ascites tumor cells.

### Purity
>98%

### Clinical Data
Launched

### Size
10 mg, 50 mg

---

Daunorubicin Hydrochloride (RP 13057 (Hydrochloride); Daunomycin (Hydrochloride); Rubidomycin (Hydrochloride))

### Bioactivity
Daunorubicin Hydrochloride is a topoisomerase II inhibitor with potent antineoplastic activities. Daunorubicin Hydrochloride inhibits DNA and RNA synthesis in sensitive and resistant Ehrlich ascites tumor cells.

### Purity
99.27%

### Clinical Data
Launched

### Size
10 mM x 1 mL in Water, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg
**Doxorubicin**  
(Hydroxydaunorubicin)  
Cat. No.: HY-15142A

**Bioactivity:**  
Doxorubicin is a cytotoxic anthracycline antibiotic for the treatment of multiple cancers. The possible mechanisms by which doxorubicin acts in the cancer cell are intercalation into DNA and disruption of topoisomerase II-mediated DNA repair.

**Purity:**  
>98%

**Clinical Data:**  
Launched

**Size:**  
50 mg, 100 mg, 200 mg, 500 mg

---

**Doxorubicin hydrochloride**  
(Hydroxydaunorubicin (hydrochloride))  
Cat. No.: HY-15142

**Bioactivity:**  
Doxorubicin hydrochloride is a cytotoxic anthracycline antibiotic for the treatment of multiple cancers. The possible mechanisms by which doxorubicin acts in the cancer cell are intercalation into DNA and disruption of topoisomerase II-mediated DNA repair.

**Purity:**  
99.47%

**Clinical Data:**  
Launched

**Size:**  
10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg, 1 g

---

**Edotecarin**  
(J 107088; PF 804950)  
Cat. No.: HY-13618

**Bioactivity:**  
Edotecarin is a potent inhibitor of topoisomerase I that can induces single-strand DNA cleavage, with IC<sub>50</sub> of 50 nM.

**Purity:**  
98.39%

**Clinical Data:**  
Phase 3

**Size:**  
1 mg, 5 mg, 10 mg

---

**Ellipticine**  
(NSC 71795)  
Cat. No.: HY-15753

**Bioactivity:**  
Ellipticine (NSC 71795) is a potent antineoplastic agent; inhibits DNA topoisomerase II activities.

**Purity:**  
>98%

**Clinical Data:**  
No Development Reported

**Size:**  
5 mg, 10 mg, 50 mg, 100 mg

---

**Ellipticine hydrochloride**  
(NSC 71795 (hydrochloride))  
Cat. No.: HY-15753A

**Bioactivity:**  
Ellipticine (NSC 71795) hydrochloride is a potent antineoplastic agent; inhibits DNA topoisomerase II activities.

**Purity:**  
98.08%

**Clinical Data:**  
No Development Reported

**Size:**  
10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

---

**Epirubicin**  
Cat. No.: HY-13624

**Bioactivity:**  
Epirubicin is a semisynthetic L-arabino derivative of doxorubicin, and an antineoplastic agent by inhibiting Topoisomerase.

**Purity:**  
>98%

**Clinical Data:**  
Launched

**Size:**  
5 mg, 10 mg

---

**Epirubicin hydrochloride**  
(4’-Epidoxorubicin hydrochloride)  
Cat. No.: HY-13624A

**Bioactivity:**  
Epirubicin (hydrochloride) is a semisynthetic L-arabino derivative of doxorubicin, and an antineoplastic agent by inhibiting Topoisomerase.

**Purity:**  
98.88%

**Clinical Data:**  
Launched

**Size:**  
10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

---

**Etoposide**  
(VP-16; VP-16-213)  
Cat. No.: HY-13629

**Bioactivity:**  
Etoposide (VP-16; VP-16-213), a chemotherapy medication used for the treatments of a number of types of cancer, inhibits DNA synthesis by forming a complex with topoisomerase II and DNA. Etoposide arrests cell cycle in G2 and induces apoptosis...

**Purity:**  
99.65%

**Clinical Data:**  
Launched

**Size:**  
10mM x 1mL in DMSO, 100 mg, 200 mg, 500 mg

---

**Exatecan**  
(DX-8951)  
Cat. No.: HY-13631

**Bioactivity:**  
Exatecan is a water soluble topoisomerase I inhibitor, with an IC<sub>50</sub> of 2.2 μM (0.975 μg/mL), and can be used in cancer research.

**Purity:**  
>98%

**Clinical Data:**  
Phase 3

**Size:**  
1 mg, 5 mg, 10 mg
**Exatecan Mesylate**  
(DX8951f)  
Cat. No.: HY-13631A

**Bioactivity:** Exatecan Mesylate is a water soluble topoisomerase I inhibitor, with an IC₅₀ of 2.2 μM (0.975 μg/mL), and can be used in cancer research.

**Purity:** 99.12%  
**Clinical Data:** Phase 3  
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 250 mg, 500 mg

---

**Flumequine**  
(R-802)  
Cat. No.: HY-B0526

**Bioactivity:** Flumequine (R-802) is a quinolone antibiotic, and acts as a topoisomerase II inhibitor, with an IC₅₀ of 15 μM (3.92 μg/mL).

**Purity:** 99.53%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg

---

**Genz-644282**  
Cat. No.: HY-16228

**Bioactivity:** Genz-644282 is a non-camptothecin topoisomerase I inhibitor, used for cancer research.

**Purity:** 98.03%  
**Clinical Data:** Phase 1  
**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

---

**Idarubicin hydrochloride**  
(4-Demethoxydaunorubicin hydrochloride)  
Cat. No.: HY-17381

**Bioactivity:** Idarubicin hydrochloride is an anthracycline antileukemic drug. It inhibits the topoisomerase II interfering with the replication of DNA and RNA transcription.

**Purity:** 99.62%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

---

**Indotecan**  
(LMP-400; NSC-724998)  
Cat. No.: HY-18351

**Bioactivity:** Indotecan (LMP-400) is a potent topoisomerase I(Top1) inhibitor with IC₅₀ values of 300, 1200, 560 nM for P388, HCT116, MCF-7 cell lines, respectively.

**Purity:** 98.0%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

---

**Intoplicine**  
Cat. No.: HY-101647

**Bioactivity:** Intoplicine is a DNA topoisomerase I and II inhibitor.

**Purity:** >98%  
**Clinical Data:** Phase 1  
**Size:** 1 mg, 5 mg, 10 mg

---

**Irinotecan**  
((+)-Irinotecan; CPT-11)  
Cat. No.: HY-16562

**Bioactivity:** Irinotecan is a water soluble topoisomerase I inhibitor, preventing religation of the DNA strand by binding to topoisomerase I-DNA complex.

**Purity:** 99.84%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg

---

**Irinotecan hydrochloride**  
(CPT-11 hydrochloride; Camptothecin 11 hydrochloride)  
Cat. No.: HY-16562A

**Bioactivity:** Irinotecan hydrochloride is a water soluble topoisomerase I inhibitor mainly used to treat colon cancer and rectal cancer.

**Purity:** 99.75%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg

---

**Irinotecan hydrochloride trihydrate**  
Cat. No.: HY-16568

**Bioactivity:** Irinotecan hydrochloride trihydrate is a water soluble topoisomerase I inhibitor with antitumor activity.

**Purity:** 99.78%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg

---

**Karenitecin**  
(Cositecan; BNP 1350)  
Cat. No.: HY-14812

**Bioactivity:** Karenitecin (Cositecan) is a topoisomerase I inhibitor, with potent anti-cancer activity.

**Purity:** 98.30%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

---

www.MedChemExpress.com
<table>
<thead>
<tr>
<th>LMP744 (MJ-III65; NSC706744)</th>
<th>Cat. No.: HY-U00248</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>LMP744 (MJ-III65) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.(^1)</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Phase 1</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg, 50 mg</td>
</tr>
<tr>
<td>LMP744 hydrochloride (MJ-III65 hydrochloride; NSC706744 hydrochloride)</td>
<td>Cat. No.: HY-U00248A</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>LMP744 hydrochloride (MJ-III65 hydrochloride) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.(^1)</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MC-DOXHZN (Doxorubicin(6-maleimidocaproyl)hydrazone)</th>
<th>Cat. No.: HY-16261A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>MC-DOXHZN is an albumin-binding prodrug of Doxorubicin, with acid-sensitive properties.(^1)</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Phase 3</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>MC-DOXHZN hydrochloride (Doxorubicin(6-maleimidocaproyl)hydrazone hydrochloride)</td>
<td>Cat. No.: HY-16261B</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>MC-DOXHZN hydrochloride is an albumin-binding prodrug of Doxorubicin, with acid-sensitive properties.(^1)</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mitoxantrone (mitoxantrone)</th>
<th>Cat. No.: HY-13502</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Mitoxantrone is a Topoisomerase II inhibitor; also inhibits protein kinase C (PKC) activity with an IC(_{50}) of 8.5 (\mu)M.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Mitoxantrone dihydrochloride (mitoxantrone dihydrochloride)</td>
<td>Cat. No.: HY-13502A</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Mitoxantrone dihydrochloride is a Topoisomerase II inhibitor; also inhibits protein kinase C (PKC) activity with an IC(_{50}) of 8.5 (\mu)M.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>97.02%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 50 mg, 100 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Namitecan (ST-1968)</th>
<th>Cat. No.: HY-14821</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Namitecan is a potent Topoisomerase I inhibitor, with antitumor property.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Pirarubicin (THP)</td>
<td>Cat. No.: HY-13725</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Pirarubicin is an anthracycline antibiotics, acts as a Topoisomerase II inhibitor, and is a widely used for treatment of various cancers, in particular, solid tumors.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>99.02%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Pirarubicin Hydrochloride (THP Hydrochloride)</td>
<td>Cat. No.: HY-13725A</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Pirarubicin Hydrochloride is an anthracycline antibiotics, acts as a Topoisomerase II inhibitor, and is a widely used for treatment of various cancers, in particular, solid tumors.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>96.90%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Pixantrone (BBR 2778)</td>
<td>Cat. No.: HY-13727</td>
</tr>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Pixantrone is a Topoisomerase II inhibitor and DNA intercalator, with anti-tumor activity.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10 mg, 50 mg, 100 mg</td>
</tr>
</tbody>
</table>

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**Bioactivity:**

LMP744 (MJ-III65; NSC706744) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.\(^1\)

**Bioactivity:**

LMP744 hydrochloride (MJ-III65 hydrochloride; NSC706744 hydrochloride) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.\(^1\)

**Bioactivity:**

MC-DOXHZN is an albumin-binding prodrug of Doxorubicin, with acid-sensitive properties.\(^1\)

**Bioactivity:**

MC-DOXHZN hydrochloride is an albumin-binding prodrug of Doxorubicin, with acid-sensitive properties.\(^1\)

**Bioactivity:**

Mitoxantrone is a Topoisomerase II inhibitor; also inhibits protein kinase C (PKC) activity with an IC\(_{50}\) of 8.5 \(\mu\)M.

**Bioactivity:**

Mitoxantrone dihydrochloride is a Topoisomerase II inhibitor; also inhibits protein kinase C (PKC) activity with an IC\(_{50}\) of 8.5 \(\mu\)M.

**Bioactivity:**

Namitecan is a potent Topoisomerase I inhibitor, with antitumor property.

**Bioactivity:**

Pirarubicin is an anthracycline antibiotics, acts as a Topoisomerase II inhibitor, and is a widely used for treatment of various cancers, in particular, solid tumors.

**Bioactivity:**

Pirarubicin Hydrochloride is an anthracycline antibiotics, acts as a Topoisomerase II inhibitor, and is a widely used for treatment of various cancers, in particular, solid tumors.

**Bioactivity:**

Pixantrone is a Topoisomerase II inhibitor and DNA intercalator, with anti-tumor activity.
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Bioactivity</th>
<th>Purity</th>
<th>Clinical Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixantrone dimaleate</td>
<td>HY-13727A</td>
<td>Pixantrone dimaleate is a topoisomerase II inhibitor and DNA intercalator, with anti-tumor activity.</td>
<td>95.0%</td>
<td>Launched</td>
<td>10mM x 1mL in Water, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Podocarpus flavone A</td>
<td>HY-N2198</td>
<td>Podocarpus flavone A is a DNA topoisomerase I inhibitor, have moderated anti-proliferative activity induce cell apoptosis in MCF-7, is developing anti-tumor drugs target: DNA topoisomerase I. In vitro: podocarpusflavone-A show significant inhibitions against DLD, KB, MCF-7, HeP-2 tumor cell lines...</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>5 mg, 10 mg</td>
</tr>
<tr>
<td>SN-38</td>
<td>HY-13704</td>
<td>SN-38 (NK012) is an active metabolite of the Topoisomerase I inhibitor Irinotecan. SN-38 (NK012) inhibits DNA and RNA synthesis with ( IC_{50} ) of 0.077 and 1.3 ( \mu \text{M} ), respectively.</td>
<td>99.46%</td>
<td>Phase 2</td>
<td>10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg</td>
</tr>
<tr>
<td>SW044248</td>
<td>HY-19637</td>
<td>SW044248 is a non-canonical topoisomerase I inhibitor, and selectively toxic for certain non-small cell lung cancer (NSCLC) cell lines.</td>
<td>99.60%</td>
<td>No Development Reported</td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>TAS-103 (BMS-247615)</td>
<td>HY-13758</td>
<td>TAS-103 is a dual inhibitor of DNA topoisomerase I/II, used for cancer research.</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>TAS-103 dihydrochloride</td>
<td>HY-13758A</td>
<td>TAS-103 dihydrochloride is a dual inhibitor of DNA topoisomerase I/II, used for cancer research.</td>
<td>99.70%</td>
<td>No Development Reported</td>
<td>10mM x 1mL in Water, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Teniposide (VM26)</td>
<td>HY-13761</td>
<td>Teniposide is a podophyllotoxin derivative, acts as a topoisomerase II inhibitor, and used as a chemotherapeutic agent.</td>
<td>99.84%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 25 mg, 50 mg, 100 mg, 200 mg</td>
</tr>
<tr>
<td>Top1 inhibitor 1</td>
<td>HY-126142</td>
<td>Top1 inhibitor 1 (compound 28) is a potent human topoisomerase I (Top1) inhibitor with an ( IC_{50} ) value of 29 nM [1].</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>250 mg, 100 mg, 500 mg</td>
</tr>
<tr>
<td>Topotecan</td>
<td>HY-13768</td>
<td>Topotecan (SKF 104864A; NSC 609669) is a Topoisomerase I inhibitor. The ( IC_{50} ) values of Topotecan at 24 h are 2.73±0.25 ( \mu \text{M} ) of U251 cells, 2.95±0.23 ( \mu \text{M} ) of U87 cells, 5.46±0.41 ( \mu \text{M} ) of GSCs-U251 and 5.95±0.24 ( \mu \text{M} ) of GSCs-U87.</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>10 mg, 50 mg</td>
</tr>
<tr>
<td>Topotecan Hydrochloride</td>
<td>HY-13768A</td>
<td>Topotecan Hydrochloride (SKF 104864A Hydrochloride; NSC 609669 Hydrochloride) is a Topoisomerase I inhibitor with potent antineoplastic activities.</td>
<td>99.20%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</td>
</tr>
</tbody>
</table>

[1] Bioactivity: Top1 inhibitor 1 (compound 28) is a potent human topoisomerase I (Top1) inhibitor with an \( IC_{50} \) value of 29 nM [1].
**Voreloxin**
(SNS-595; Vosaroxin; AG 7352)  
Cat. No.: HY-10534

**Bioactivity:** Voreloxin is a first-in-class topoisomerase II inhibitor that intercalates DNA and induces site-selective DNA DSB, G2 arrest, and apoptosis.

**Purity:** > 98%

**Clinical Data:** Phase 3

**Size:** 5 mg, 10 mg, 50 mg

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**Voreloxin Hydrochloride**  
(SNS-595 Hydrochloride; Vosaroxin Hydrochloride)  
Cat. No.: HY-16518

**Bioactivity:** Voreloxin Hydrochloride is a first-in-class topoisomerase II inhibitor that intercalates DNA and induces site-selective DNA DSB, G2 arrest, and apoptosis.

**Purity:** 99.70%

**Clinical Data:** Phase 3

**Size:** 5 mg, 10 mg, 50 mg

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**β-Lapachone**
(ARQ-501; NSC-26326)  
Cat. No.: HY-13555

**Bioactivity:** β-Lapachone is a naturally occurring O-naphthoquinone, acts as a topoisomerase I inhibitor, and induces apoptosis by inhibiting cell cycle progression.

**Purity:** 99.98%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

---

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---

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**Clinical Data:** No Development Reported

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