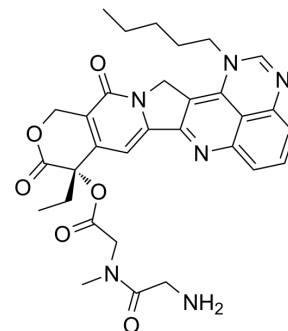


## Atiratecan

Cat. No.:	HY-14833
CAS No.:	867063-97-6
Molecular Formula:	C <sub>31</sub> H <sub>34</sub> N <sub>6</sub> O <sub>6</sub>
Molecular Weight:	586.64
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Atiratecan (TP300) is a prodrug of camptothecin analog CH0793076 (HY-107096). Atiratecan does not inhibit acetylcholinesterase (AChE) activities. Atiratecan shows antitumor activity against both breast cancer resistance protein (BCRP)-positive and -negative xenografts in mouse xenograft models <sup>[1]</sup> .
<b>In Vitro</b>	Atiratecan (TP300) is stable in an acidic solution but is rapidly converted to CH0793076 under physiological pH conditions such as in sera <sup>[1]</sup> . Atiratecan has antiproliferative activity against camptothecin-resistant cell lines. Atiratecan has IC <sub>50</sub> s of 9.4 nM and 1.1 nM for A2780 and A2780/SN75 cells, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Atiratecan (TP300; 47 mg/kg; IV; once per week for 3 weeks) shows more than 50% of tumor growth inhibition in all nine models, regardless of the expression of BCRP <sup>[1]</sup> . Atiratecan (24 mg/kg; IV; once per week for 6 weeks) in combination with capecitabine results in synergistic effects in the HCT116 human colon cancer and NCI-N87 human gastric cancer xenograft models and an additive effect in the WiDr human colon cancer xenograft model which is BCRP-positive and CPT-11-insensitive <sup>[1]</sup> . The effective dose range of Atiratecan is between 0.30 and 47 mg/kg (MTD/ED <sub>50</sub> =157). The toxic dose is 63 mg/kg for Atiratecan <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Five-week-old male athymic nude mice (CAnN.CgFoxn1 <sup>nu</sup> /CrIcrIj) <sup>[1]</sup>
Dosage:	47 mg/kg (the maximum tolerated dose; MTD)
Administration:	IV; once per week for 3 weeks
Result:	Showed more than 50% of tumor growth inhibition in all models, regardless of the expression of BCRP.

### REFERENCES

[1]. Endo M, et al. A water soluble prodrug of a novel camptothecin analog is efficacious against breast cancer resistance protein-expressing tumor xenografts. Cancer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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