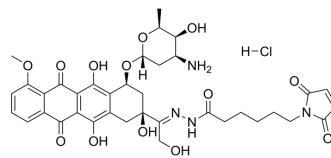


## Aldoxorubicin hydrochloride

<b>Cat. No.:</b>	HY-16261C
<b>CAS No.:</b>	1361563-03-2
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>43</sub> ClN <sub>4</sub> O <sub>13</sub>
<b>Molecular Weight:</b>	787.21
<b>Target:</b>	Topoisomerase; ADC Cytotoxin
<b>Pathway:</b>	Cell Cycle/DNA Damage; Antibody-drug Conjugate/ADC Related
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Aldoxorubicin (INNO-206) hydrochloride is an albumin-binding proagent of Doxorubicin (DNA topoisomerase II inhibitor), which is released from albumin under acidic conditions. Aldoxorubicin hydrochloride (INNO-206) has potent antitumor activities in various cancer cell lines and in murine tumor models.
<b>IC<sub>50</sub> &amp; Target</b>	Topoisomerase II <sup>[4]</sup>
<b>In Vitro</b>	Aldoxorubicin hydrochloride (INNO-206)? (0.27 to 2.16 μM) inhibits blood vessel formation and reduces multiple myeloma cell growth in a pH-dependent fashion <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Aldoxorubicin hydrochloride (INNO-206) (10.8 mg/kg, i.v.) shows significantly smaller tumor volumes and IgG levels on days 28, and is well tolerated with 90% of mice surviving until the termination of the study in the mice bearing the LAGκ-1A tumor <sup>[1]</sup> . Aldoxorubicin hydrochloride (INNO-206) shows a good safety profile at doses up to 260 mg/mL doxorubicin equivalents, and is able to induce tumor regressions in breast cancer, small cell lung cancer and sarcoma in phase I study <sup>[2]</sup> . Aldoxorubicin hydrochloride (INNO-206) shows superior activity over doxorubicin in a murine renal cell carcinoma model and in breast carcinoma xenograft models <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Acta Pharm Sin B. 21 July 2022.
- Sci Adv. 2019 Aug 14;5(8):eaaw6081.
- Small. 2023 Feb 7;e2205606.
- Nano Res. 08 February 2022.
- Int J Nanomedicine. 20 September 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

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- [1]. Walker L, et al. Cell penetrating peptides fused to a thermally targeted biopolymer drug carrier improve the delivery and antitumor efficacy of an acid-sensitive doxorubicin derivative. *Int J Pharm.* 2012 Oct 15;436(1-2):825-32.
- [2]. Graeser R, et al. INNO-206, the (6-maleimidocaproyl hydrazone derivative of doxorubicin), shows superior antitumor efficacy compared to doxorubicin in different tumor xenograft models and in an orthotopic pancreas carcinoma model. *Invest New Drugs.* 2010 F
- [3]. Eric Sanchez, et al. Anti-Myeloma Effects of the Novel Anthracycline Derivative INNO-206. *Clin Cancer Res.* 2012 18; 3856.
- [4]. Kratz, F. INNO-206 (DOXO-EMCH), an Albumin-Binding Prodrug of Doxorubicin Under Development for Phase II Studies. *Current Bioactive Compounds*, 2011, 7(1): 33-38(6)
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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