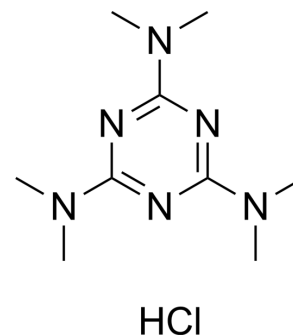


Altretamine hydrochloride

Cat. No.:	HY-B0181A
CAS No.:	2975-00-0
Molecular Formula:	C ₉ H ₁₉ ClN ₆
Molecular Weight:	246.74
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Altretamine hydrochloride is an alkylating antineoplastic agent.
In Vitro	Altretamine hydrochloride is an antineoplastic agent ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Altretamine (100, 133 mg/kg, ip.) in combination with Irofulven, increases the antitumor effect in mice bearing MV522 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	Mice ^[1] Balb/c nu/nu 4 week old female mice weighing 18-22 g, receive s.c. injections of 8-10 million MV522 cells. Altretamine is administered i.p. three times a week for 3 weeks, starting on day 10 after tumor implantation. Tumor size is measured in two perpendicular diameters and tumor weight (TW) estimated according to the formula: $w = [(width)^2 \times length/2]$. Altretamine is prepared as stock solutions of 1-10 mg/mL in 40% DMSO/normal saline and diluted with 10% DMSO/normal saline as required ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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CUSTOMER VALIDATION

- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.

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REFERENCES

[1]. Kelner MJ, et al. Synergy of iriffulven in combination with other DNA damaging agents: synergistic interaction with altretamine, alkylating, and platinum-derived agents in the MV522 lung tumor model. Cancer Chemother Pharmacol. 2008 Dec;63(1):19-26.

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

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