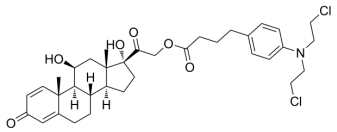
Prednimustine

Cat. No.:	HY-13732
CAS No.:	29069-24-7
Molecular Formula:	$C_{35}H_{45}Cl_2NO_6$
Molecular Weight:	646.64
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

Prednimustine (Leo 1031;NSC 134087) is the ester formed from Prednisolone (HY-17463) and Chlorambucil (HY-13593). Prednimustine can be used for leukemias and lymphomas research[1].

In Vivo

Prednimustine (120 mg/kg; s.c.; single dose) shows much less toxic than equimolar doses of Chlorambucil (HY-13593) (60 mg/kg; s.c.; single dose) in non-tumour-bearing rat model, due to differences in alkylating agent pharmacokinetics[1].

Prednimustine (40 mg/kg; s.c.; single dose) produces low plasma concentrations (less than 5 microM) of the alkylating metabolites chlorambucil and phenyl acetic mustard, which were maintained for 48 h in rats bearing the sensitive strain of the Walker 256 carcinosarcoma grown as an ascites[1].

Prednimustine (40 mg/kg;s.c.; single dose; measured at 72 h) shows antitumor effect in rats model with the alkylating agent-resistant strain of the Yoshida sarcoma[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female Wistar rats non-tumour-bearing (150-200g)[1]
Dosage:	120 mg/kg
Administration:	Subcutaneous injection; single dose; observed at day 21
Result:	Remained 100% survival of rats, while 0% survival for Chlorambucil treatment group.

Animal Model:	Female Wistar rats bearing the alkylating agent-resistant strain of the Yoshida sarcoma (150-200g)[1]
Dosage:	40 mg/kg
Administration:	Subcutaneous injection; single dose
Result:	Killed 57% of the resistant tumour cells.

REFERENCES

[1]. Newell DR, et al. The pharmacokinetics of prednimustine and chlorambucil in the rat. Cancer Chemother Pharmacol. 1981;6(1):85-91.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA