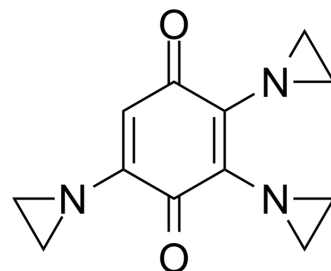


Trenimon

Cat. No.:	HY-105740
CAS No.:	68-76-8
Molecular Formula:	C ₁₂ H ₁₃ N ₃ O ₂
Molecular Weight:	231.25
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Trenimon is a compound with anti-cancer effects. Trenimon shows mutagenic actions in many species by inducing point and chromosomal mutations, sister-chromatid exchanges, recombination phenomena and phage induction. Trenimon can be used for the research of cancer ^{[1][2][3][4]} .
In Vitro	Trenimon (0.17 mM) penetrates readily into mouse lymphoma cells in vitro ^[1] . Trenimon (0.17 nM; 5 min-16 h) time-dependently reduces the priming activity of DNA ^[2] . Trenimon (1 nM-10 μM; 10-20 min) leads HeLa cells death after 2 weeks with a dose of 10 μM and dose-dependently suppresses mitosis in cells ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Trenimon (0.25 mg/kg; i.p. once) rapidly depresses of the cellular elements of the peripheral blood (granulocytes, lymphocytes, reticulocytes, platelets and erythrocytes), and reduces the cell number of bone marrow ^[4] . Trenimon (0.03 mg/kg; i.v. once per week for 52 weeks) shows an cancerogenic effect in vivo ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	BR 46 male rats ^[4]
Dosage:	0.03 mg/kg
Administration:	Intravenous injection; 0.03 mg/kg once per week for 52 weeks
Result:	Showed an cancerogenic effect and 24% animals developed malign tumors, and showed a induction time of the tumors is 16 months.

REFERENCES

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- [2]. GRUNICKE H, et al. THE EFFECTS OF THE ALKYLATING CYTOSTATIC AGENT, 2,3,5-TRISETHYLENEIMINO-BENZOQUINONE-1,4(TRENIMON), ON THE PRIMING ABILITY OF DNA FROM MOUSE-ASCITES-TUMOR CELLS IN THE RNA-POLYMERASE-SYSTEM. *Biochem Biophys Res Commun.* 1965 Feb 3;18:319-24.
- [3]. Wegehaupt S, Sehrbundt HJ. Cytologische Untersuchungen an HeLa-Zellen nach kurzfristigen 2,3,5-Trisathyleniminobenzochinon-1,4-Gaben (Trenimon-R) [Cytologic studies on HeLa cells following short-spaced doses of 2,3,5-trisethyleniminobenzoquinone-1,4 (Trenimon-R)]. *Naturwissenschaften.* 1967 Mar;54(5):123. German.

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

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