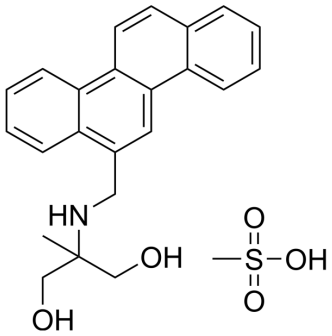
Crisnatol mesylate

Cat. No.:	HY-108999
CAS No.:	96389-69-4
Molecular Formula:	$C_{24}H_{27}NO_5S$
Molecular Weight:	441.54
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

Crisnatol (BWA770U) mesylate is an orally active and anticancer agent, and a member of the arylmethylaminopropanediol class of DNA intercalators. Crisnatol mesylate shows in vitro cytotoxicity against human breast cancer cells, but not normal human skin fibroblasts[1][2][3].

In Vitro

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

Crisnatol (1.3 μg/mL; 24-72 h) mesylate inhibits the replication of HepG2 cells, decreases cell viability by 35%[2].

Cell Viability Assay[2]

Cell Line:	HepG2 cells
Concentration:	1.3 μg/mL
Incubation Time:	24 hours, 48 hours, 72 hours, and 126 hours
Result:	Inhibited cell viability at 48 hr.

In Vivo

Crisnatol (25 mg/kg; p.o.; single dose) mesylate shows oral activity and shows stable metabolite profile extract of rat feces by autoradiography[2].

REFERENCES

[1]. Adams DJ. In vitro pharmacodynamic assay for cancer drug development: application to crisnatol, a new DNA intercalator. Cancer Res. 1989 Dec 1;49(23):6615-20.

[2]. Patel DK, et al. Metabolism of a novel antitumor agent, crisnatol, by a human hepatoma cell line, Hep G2, and hepatic microsomes. Characterization of metabolites. Biochem Pharmacol. 1991 Jul 5;42(2):337-46.

[3]. Patel DK, et al. Disposition, metabolism, and excretion of the anticancer agent crisnatol in the rat. Drug Metab Dispos. 1991 Mar-Apr;19(2):491-7.