Product Datasheet

NSC-339004

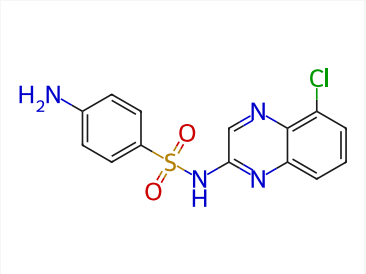
Catalog No. **BP-00008** · CAS **97919-22-7** · Form **free base** · Physical state **solid** · Color **Light yellow to yellow** · Version **1.0** · Revision **2026-09-14**

FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target	Research area
Molecular Glues; Topoisomerase; Parasite	**Infection; Cancer**

Molecular formula	$C_{14}H_{11}ClN_4O_2S$
Molecular weight	**334.7810**

STRUCTURE



DESCRIPTION

Chloroquinoxaline sulfonamide (Chloroquinoxaline), a structural analogue of sulfaquinoxaline, is a topoisomerase II alpha/beta poison. Chloroquinoxaline sulfonamide is used to control coccidiosis in poultry, rabbit, sheep, and cattle. Antitumor activity.

BIOLOGICAL ACTIVITY

In Vitro

The Chloroquinoxaline sulfonamide IC50 for CV-1cells, obtained using an MTT cytotoxicity assay, was 1.8 mM. Chloroquinoxaline sulfonamide causes dose-dependent protein-DNA cross-links to CV-1 monkey kidney cell chromosomal DNA when drug treatment was terminated by lysis with GuHCl. Chloroquinoxaline sulfonamide-induced protein-DNA cross-links in CV-1 cells. Chloroquinoxaline sulfonamide-induced topoisomerase II-DNA cross-links.

Chloroquinoxaline sulfonamide (Chloroquinoxaline), a chlorinated derivative of sulfaquinoxaline, inhibits proliferation of murine B16 melanoma cells, but only when relatively high drug concentrations (1 mM) are used.

SOLUBILITY

Soluble in DMSO : 125 mg/mL

REFERENCES

[1]. Gao H, et al. Chloroquinoxaline sulfonamide (NSC 339004) is a topoisomerase IIalpha/beta poison. Cancer?Res. 2000 Nov 1;60(21):5937-40.

[2]. Branda RF, et al. Cellular pharmacology of chloroquinoxaline sulfonamide and a related compound in murine B16 melanoma cells. Biochem Pharmacol. 1988 Dec 1;37(23):4557-64.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com