Chloroquinoxaline sulfonamide

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®

Cat. No.:	HY-106662			
CAS No.:	97919-22-7			
Molecular Formula:	C ₁₄ H ₁₁ ClN ₄ O ₂ S			
Molecular Weight:	334.78			
Target:	Topoisomerase; Parasite; Molecular Glues			
Pathway:	Cell Cycle/DNA Damage; Anti-infection; PROTAC			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

Prep	DMSO : 125 mg/mL (3	73.38 mM; Need ultrasonic) Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.9870 mL	14.9352 mL	29.8704 mL		
	Stock Solutions	5 mM	0.5974 mL	2.9870 mL	5.9741 mL		
		10 mM	0.2987 mL	1.4935 mL	2.9870 mL		
	Please refer to the sol	ubility information to select the app	propriate solvent.				
Solubility: ≥ 2.08 2. Add each solvent		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.21 mM); Clear solution					
	nt one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) 8 mg/mL (6.21 mM); Clear solution						

BIOLOGICAL ACTIV	Υ
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 ^[1] . Antitumor activity ^[2] .
IC ₅₀ & Target	topoisomerase II alpha topoisomerase II beta Coccidia
In Vitro	The Chloroquinoxaline sulfonamide IC ₅₀ 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 ^[1] .

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∠NH₂

MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.
Cell Proliferation Assay [[]	2]
Cell Line:	B16 murine melanoma cells
Concentration:	10 μM, 100 μM, 1 mM
Incubation Time:	24, 48, 72 hours
Result:	Inhibited proliferation of murine B16 melanoma cells, but only when relatively high drug concentrations (1 mM) were used.

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.

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

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