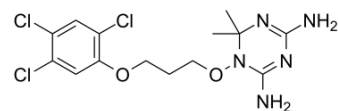


WR99210

Cat. No.:	HY-116387
CAS No.:	47326-86-3
Molecular Formula:	C ₁₄ H ₁₈ Cl ₃ N ₅ O ₂
Molecular Weight:	394.68
Target:	Antifolate; Bacterial
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years



* The compound is unstable in solutions, freshly prepared is recommended.

SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.67 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		2.5337 mL	12.6685 mL	25.3370 mL
5 mM		0.5067 mL	2.5337 mL	5.0674 mL
10 mM		0.2534 mL	1.2668 mL	2.5337 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

WR99210 is a effective inhibitor of dihydrofolate reductase (DHFR) with an IC₅₀ of <0.075 nM^[1]. WR99210 is effective against the most pyrimethamine-resistant Plasmodium falciparum strains^[2].

IC₅₀ & Target

IC₅₀: <0.075 nM (DHFR)^[1]

REFERENCES

[1]. Kiara SM, et al. In vitro activity of antifolate and polymorphism in dihydrofolate reductase of Plasmodium falciparum isolates from the Kenyan coast: emergence of parasites with Ile-164-Leu mutation. Antimicrob Agents Chemother. 2009 Sep;53(9):3793-8.

[2]. Hastings MD, et al. Pyrimethamine and WR99210 exert opposing selection on dihydrofolatereductase from Plasmodium vivax. Proc Natl Acad Sci U S A. 2002 Oct 1;99(20):13137-41.

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

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