

WR99210

Chemical Properties

CAS No. : 47326-86-3

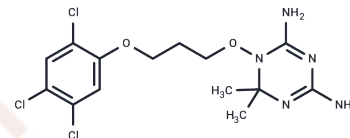
Formula: C₁₄H₁₈Cl₃N₅O₂

Molecular Weight: 394.68

Keep away from moisture

Storage: Powder: -20°C for 3 years

Actual storage temperature shall be subject to the COA.



Biological Description

Description	WR99210 (BRL 6231 free base) is an orally available dihydrofolate reductase (DHFR) inhibitor with antiparasitic activity, often used in combination with dapsone to study Mycobacterium avium complex (MAC).
Targets(IC50)	Parasite,DHFR
In vitro	WR99210 (0-100 nM; 92 h) showed significant inhibition of tachyzoites of T. gondii in tissue culture. [1] WR99210 (0-100 nM; 92 h) shows low cytotoxicity to human foreskin fibroblasts. [1]
In vivo	In a mouse model, WR99210 (1.25 mg/kg; intraperitoneal injection; once daily for 5 consecutive days) exhibited a significant inhibitory effect on T. gondii tachyzoites. [1]

Solubility Information

Solubility	DMSO: 2 mg/mL (5.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5337 mL	12.6685 mL	25.337 mL
5 mM	0.5067 mL	2.5337 mL	5.0674 mL
10 mM	0.2534 mL	1.2668 mL	2.5337 mL
50 mM	0.0507 mL	0.2534 mL	0.5067 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mui EJ, et al. Triazine Inhibits *Toxoplasma gondii* tachyzoites in vitro and in vivo. *Antimicrob Agents Chemother.* 2005 Aug;49(8):3463-7.

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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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