

Product Datasheet

WR99210

Catalog No. **BP-02457** · CAS **47326-86-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-11**

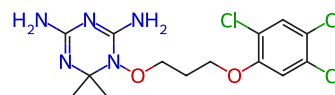
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Target Dihydrofolate reductase (DHFR); Parasite	Research area Infection
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Molecular formula **C₁₄H₁₈Cl₃N₅O₂**

Molecular weight **394.6840**

STRUCTURE



DESCRIPTION

WR99210 is an orally active and low-toxicity dihydrofolate reductase (DHFR) inhibitor (IC₅₀<0.075 nM). WR99210 shows good antiparasitic activity and is effective against *P. falciparum* and *P. falciparum* strains (including Pyrimethamine< -resistant *P. falciparum* strains) as well as *T. gondii* .

BIOLOGICAL ACTIVITY

In Vitro

WR99210 (0-100 nM; 92 h) is highly effective against *T. gondii* tachyzoites in tissue culture.

WR99210 (0-100 nM; 92 h) shows low cytotoxicity to human foreskin fibroblasts.

In Vivo

WR99210 (1.25 mg/kg; i.p.; single daily for 5 days) is highly effective against *T. gondii* tachyzoites in a mouse model.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Mui EJ, et al. Triazine Inhibits Toxoplasma gondii tachyzoites in vitro and in vivo. Antimicrob Agents Chemother. 2005 Aug;49(8):3463-7.
- [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.
- [3]. 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

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