

WR99210 hydrochloride(47326-86-3 free base)

Chemical Properties

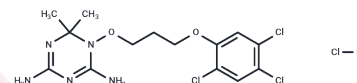
CAS No. : 30711-93-4

Formula: C₁₄H₁₉Cl₄N₅O₂

Molecular Weight: 431.14

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	WR99210 hydrochloride is a potent inhibitor of Plasmodium falciparum dihydrofolate reductase (pfDHFR), which is a major malarial drug target. It has subnanomolar potency for the wild type, double mutant and quadruple mutant dihydrofolate reductases.
Targets(IC50)	Others,Parasite,DHFR
In vitro	When tested in vitro against drug-resistant clones of P. falciparum, PS-15 was more active than proguanil, and the putative metabolite, WR99210, was more active than the proguanil metabolite cycloguanil[1].
In vivo	WR99210 is more active as well as less toxic than proguanil when administered orally to mice infected with P. berghei. When administered orally to Aotus monkeys infected with multidrug-resistant P. falciparum, PS-15 was more active than either proguanil or WR99210[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (127.57 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	2.3194 mL	11.5972 mL	23.1943 mL
5 mM	0.4639 mL	2.3194 mL	4.6389 mL
10 mM	0.2319 mL	1.1597 mL	2.3194 mL
50 mM	0.0464 mL	0.2319 mL	0.4639 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

Canfield C J , Milhous W K , Ager A L , et al. PS-15: a potent, orally active antimalarial from a new class of folic acid antagonists.[J]. American Journal of Tropical Medicine & Hygiene, 1993, 49(1):121.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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