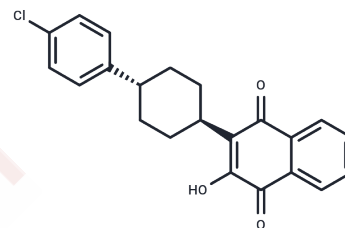


Atovaquone

Chemical Properties

CAS No. :	95233-18-4
Formula:	C ₂₂ H ₁₉ ClO ₃
Molecular Weight:	366.84
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Atovaquone (Atavaquone) is a hydroxynaphthoquinone that has antimicrobial activity and is being used in antimalarial protocols.
Targets(IC50)	Antibacterial,Antibiotic,Parasite,Cytochromes P450,Dehydrogenase
In vitro	Atovaquone (atavaquone) is a chemical compound that belongs to the class of naphthalenes. Atovaquone is a hydroxy-1,4-naphthoquinone, an analog of ubiquinone, with antipneumocystic activity.[1] Atovaquone is an anti-protozoal mitochondrial electron transport inhibitor; Antimalarial; Antipneumocystic, and has also been used to treat toxoplasmosis. It acts by inhibiting the cytochrome bc(1) complex via interactions with the Rieske iron-sulfur protein and cytochrome b in the ubiquinol oxidation pocket. [2]
In vivo	Atovaquone is a unique naphthoquinone with broad-spectrum antiprotozoal activity. It is effective for the treatment and prevention of Pneumocystis carinii pneumonia (PCP), it is effective in combination with proguanil for the treatment and prevention of malaria, and it is effective in combination with azithromycin for the treatment of babesiosis. [3]

Solubility Information

Solubility	DMSO: 9.71 mg/mL (26.47 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	2.726 mL	13.6299 mL	27.2598 mL
5 mM	0.5452 mL	2.726 mL	5.452 mL
10 mM	0.2726 mL	1.363 mL	2.726 mL
50 mM	0.0545 mL	0.2726 mL	0.5452 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

Looareesuwan S, et al. Am J Trop Med Hyg, 1996, 54(1), 62-66.

Kesl JJ, et al. J Biol Chem, 2003, 278(33), 31312-31318.

Aaron L, et al. Antimicrob Agents Chemother, 2002, 46(5), 1163-1173.

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