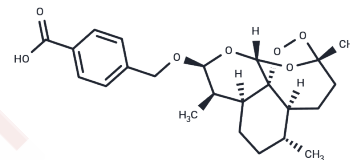


Artelinic acid

Chemical Properties

CAS No. :	120020-26-0
Formula:	C ₂₃ H ₃₀ O ₇
Molecular Weight:	418.48
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	Artelinic acid is a water-soluble artemisinin analog with antimalarial activity and is used for the treatment of multi-drug resistant strains of Plasmodium falciparum.
Targets(IC50)	Parasite
In vivo	In adult male beagle dogs aged 3-5 years, artelinic acid (10 mg/kg; i.v.) had an elimination half-life of 0.37 hours, a clearance of 14.99 mL/min/kg, a volume of distribution at steady state of 9.52 L, and an AUC _{0-12h} of 11219 ng h/mL[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (191.17 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	2.3896 mL	11.948 mL	23.896 mL
5 mM	0.4779 mL	2.3896 mL	4.7792 mL
10 mM	0.239 mL	1.1948 mL	2.3896 mL
50 mM	0.0478 mL	0.239 mL	0.4779 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

Li QG, et al. Pharmacology and toxicology of artelinic acid: preclinical investigations on pharmacokinetics, metabolism, protein and red blood cell binding, and acute and anorectic toxicities. *Trans R Soc Trop Med Hyg.* 1998 May-Jun;92(3):332-40.

Hartell MG, et al. Nuclear magnetic resonance and molecular modeling analysis of the interaction of the antimalarial drugs artelinic acid and artesunic acid with beta-cyclodextrin. *J Pharm Sci.* 2004 Aug;93(8):2076-89.

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