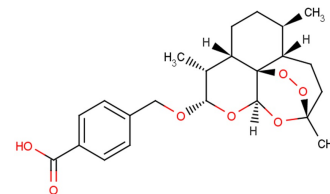


Artelinic acid

Chemical Properties

CAS No.:	120020-26-0
Formula:	C ₂₃ H ₃₀ O ₇
Molecular Weight:	418.48
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Artelinic acid, a derivative of Artemisinin, is an antimalarial drug for the treatment of multidrug-resistant strains of <i>Plasmodium falciparum</i> .
Targets(IC ₅₀)	Others: None
In vivo	Artelinic acid (10 mg/kg; i.v.) has an elimination time t _{1/2} of 0.37 hours, a CL of 14.99 mL/min/kg, a V _{ss} of 9.52 L, and an AUC _{0-12h} of 11219 ng h/mL for dogs. Artelinic acid (10 mg/kg; intramuscular) has an elimination time t _{1/2} of 6.14 hours, a CL of 14.58 mL/min/kg, a V _{ss} of 36.1 L and an AUC _{0-12h} of 96372 ng h/mL for dogs. Artelinic acid (10 mg/kg; oral) has an elimination time t _{1/2} of 2.21 hours, a CL of 14.6 mL/min/kg, a V _{ss} of 16.2 L and a AUC _{0-12h} of 8839 ng h/mL for dogs [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.39 mL	11.948 mL	23.896 mL
5 mM	0.478 mL	2.39 mL	4.779 mL
10 mM	0.239 mL	1.195 mL	2.39 mL
50 mM	0.048 mL	0.239 mL	0.478 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

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.

Inhibitors · Natural Compounds · Compound Libraries

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