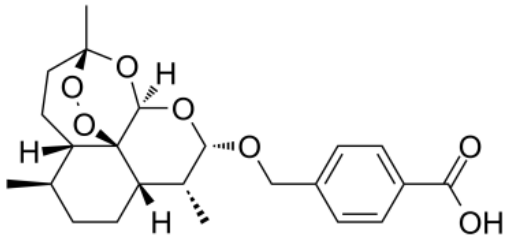
Product Data Sheet

Product Name: Artelinic acid
Cat. No.: GC61598

Chemical Properties

Cas. No.	120020-26-0		
SMILES	O=C(O)C1=CC=C(CO[C@@H]2[C@H](C)[C@]3([H])CC[C@@H](C)[C@]4([H])CC[C@@](O5)(C)OO[C@]43[C@]5([H])O2)C=C1		
Formula	$C_{23}H_{30}O_7$	M.Wt	418.48
Solubility	DMSO: 100 mg/mL (238.96 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Artelinic acid, a derivative of Artemisinin, is an antimalarial drug for the treatment of multidrug resistant strains of Plasmodium falciparum. Artelinic acid can be administered by various routes of administration, including intravenous, intramuscular and oral routes[1][2].

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Artelinic acid (10 mg/kg; i.v.) has an elimination time t1/2 of 0.37 hours, a CL of 14.99 mL/min/kg, a Vss of 9.52 L and a AUC0-12h of 11219 ng h/mL for dogs[1]. Artelinic acid (10 mg/kg; intramuscular) has an elimination time t1/2 of 6.14 hours, a CL of 14.58 mL/min/kg, a Vss of 36.1 L and a AUC0-12h of 96372 ng h/mL for dogs[1].Artelinic acid (10 mg/kg; oral) has an elimination time t1/2 of 2.21 hours, a CL of 14.6 mL/min/kg, a Vss of 16.2 L and a AUC0-12h of 8839 ng h/mL for dogs[1]. Animal Model: Adult male beagle dogs 3-5 years old[1]

[1]. 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. [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA