

## 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

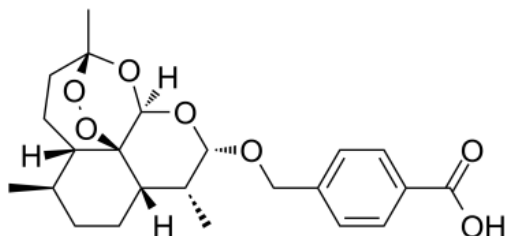
Formula  $C_{23}H_{30}O_7$  M.Wt 418.48

Solubility DMSO: 100 mg/mL (238.96 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition 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.**

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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 Vss of 9.52 L and a AUC<sub>0-12h</sub> of 11219 ng h/mL for dogs[1]. 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 Vss of 36.1 L and a AUC<sub>0-12h</sub> of 96372 ng h/mL for dogs[1]. 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 Vss of 16.2 L and a AUC<sub>0-12h</sub> 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.

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