Artelinic acid

Cat. No.: HY-135578
CAS No.: 120020-26-0
Molecular Formula: C_{23}H_{30}O_{7}
Molecular Weight: 418.48
Target: Parasite
Pathway: Anti-infection
Storage: Please store the product under the recommended conditions in the COA.

**BIOLOGICAL ACTIVITY**

**Description**
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].

**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 a AUC$_{0-12h}$ 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 $V_{SS}$ of 36.1 L and a AUC$_{0-12h}$ 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 $V_{SS}$ of 16.2 L and a AUC$_{0-12h}$ of 8839 ng h/mL for dogs[1].

**Animal Model:** Adult male beagle dogs 3-5 years old[1]
**Dosage:** 10 mg/kg
**Administration:** i.v. (Pharmacokinetic Analysis)
**Result:** Had 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 a AUC$_{0-12h}$ of 11219 ng h/mL for dogs.

**REFERENCES**


Caution: Product has not been fully validated for medical applications. For research use only.

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