



LKT Laboratories, Inc.

## Artemisinin

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### Product Information

**Product ID** A6978

**CAS No.** 63968-64-9

**Chemical Name** (3R,5aS,6R,8aS,9R,12S,12aR)-Octahydro-3,6,9-tri-methyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzo-dioxepin-10(3H)-one

**Synonym** Artemisine, Arteannuin, Quinghaosu, QHS

**Formula** C<sub>15</sub>H<sub>22</sub>O<sub>5</sub>

**Formula Wt.** 282.35

**Melting Point** 156-157° C

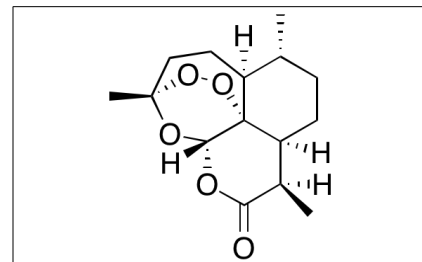
**Purity** ≥98%

**Solubility** Insoluble in water. Soluble in methanol (24mg/ml), acetone, ethanol, DMF, DMSO (57 mg/ml) at 25° C, **acetone**, **chloroform** (25 mg/ml) DCM

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Artemisinin is a sesquiterpene lactone originally found in *Artemisia* (wormwood); it is clinically used to treat malaria. Artemisinin exhibits anti-parasitic, antimalarial, cardioprotective, anticancer, and anti-inflammatory activities. This compound inhibits growth of *Plasmodium*. In animal models of myocardial infarction, artemisinin decreases ventricular fibrillation threshold and levels of TNF-α and increases expression of connexin 43. In macrophages, this compound inhibits IL-6 release. Artemisinin also inhibits growth of neuroblastoma cells, increasing activation of AMPK and decreasing signaling by mTOR.



**Bulk quantities available upon request**

Product ID	Size
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A6978	100 mg
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A6978	500 mg
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A6978	1 g
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**References** Gu Y, Wu G, Wang X, et al. Artemisinin prevents electric remodeling following myocardial infarction possibly by upregulating the expression of connexin 43. *Mol Med Rep.* 2014 Oct;10(4):1851-6. PMID: 25110145.

Tan WQ, Chen G, Jia B, et al. Artemisinin inhibits neuroblastoma proliferation through activation of AHP-activated protein kinase (AMPK) signaling. *Pharmazie.* 2014 Jun;69(6):468-72. PMID: 24974584.

Patel K, Batty KT, Moore BR, et al. Predicting the parasite killing effect of artemisinin combination therapy in a murine malaria model. *J Antimicrob Chemother.* 2014 Aug;69(8):2155-63. PMID: 24777899.

Yu WY, Kan WJ, Yu PX, et al. Anti-inflammatory effect and mechanism of artemisinin and dihydroartemisinin. *Zhongguo Zhong Yao Za Zhi.* 2012 Sep;37(17):2618-21. PMID: 23236763.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.