

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



## DATASHEET

Artemisinin

### Product overview

<b>Name</b>	Artemisinin
<b>Cat No</b>	HB1115
<b>Alternative names</b>	Qinghaosu
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>99%
<b>Description</b>	Plasmodium falciparum SERCA orthologue inhibitor

### Biological Data

<b>Biological description</b>	Plasmodium falciparum SERCA orthologue (PfATP6) inhibitor ( $K_i = 150$ nM). Thought to generate cytotoxic C-radicals. Shows anti-malarial, anti-proliferative and anti-neoplastic actions.
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### Solubility & Handling

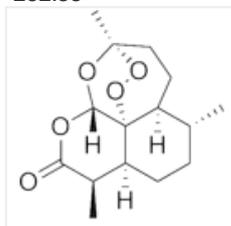
<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100mM) or ethanol (75mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

**Chemical name** (3*R*,5*aS*,6*R*,8*aS*,9*R*,12*S*,12*aR*)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12*H*-pyrano[4,3-*j*]-1,2-benzodioxepin-10(3*H*)-one

**Molecular Weight** 282.33

**Chemical structure**



**Molecular Formula**  $C_{15}H_{22}O_5$

**CAS Number** 63968-64-9

**PubChem identifier** 68827

**SMILES**

**InChIKey**

O=C1O[C@]([H])(O[C@@](OO4)(C)CC3)[C@]24[C@](CC[C@@H](C)[C@]32[H])([H])[C@H]1C  
BLUAFEHZUWYNDE-NNWCWBAJSA-N

### References

#### Artemisinins target the SERCA of Plasmodium falciparum.

Eckstein-Ludwig U *et al* (2003) Nature 424(6951)

**PubMedID**

[12931192](#)

**Artemisinin inhibits neuroblastoma proliferation through activation of AHP-activated protein kinase (AMPK) signaling.**

Tan WQ *et al* (2014) Pharmazie 69(6)

**PubMedID** [24974584](#)

**Considerations on the mechanism of action of artemisinin antimalarials: part 1--the 'carbon radical' and 'heme' hypotheses.**

Haynes RK *et al* (2013) Infect Disord Drug Targets 13(4)

**PubMedID** [24304352](#)

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