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DATASHEET

Artemisinin

Product overview

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

Biological Data

Biological description	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

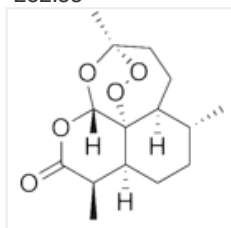
Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (75mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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](#)
