Datasheet

Product overview

Name: Artemisinin
Cat No: HB1115
Short description: Plasmodium falciparum SERCA orthologue inhibitor
Biological description: Plasmodium falciparum SERCA orthologue (PfATP6) inhibitor (Ki = 150 nM). Thought to generate cytotoxic C-radicals. Shows anti-malarial, anti-proliferative and anti-neoplastic actions.
Biological action: Inhibitor
Purity: >99%

Properties

Chemical name: (3R,5aS,6R,8aS,9R,12S,12aR)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1, 2-benzoxepin-10(3H)-one
Molecular Weight: 282.33
Chemical structure:

Molecular Formula: C_{15}H_{22}O_{5}
CAS Number: 63968-64-9

Storing and Using Your Product

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.

References for Artemisinin

Artemisinins target the SERCA of Plasmodium falciparum.


PubMedID: 12931192
Artemisinin inhibits neuroblastoma proliferation through activation of AHP-activated protein kinase (AMPK) signaling.
PubMedID: 24974584

Considerations on the mechanism of action of artemisinin antimalarials: part 1--the 'carbon radical' and 'heme' hypotheses.
PubMedID: 24304352