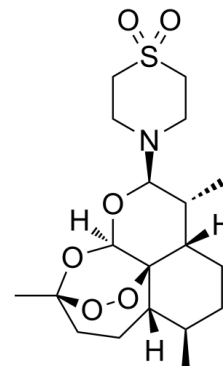


Data Sheet

Product Name:	Artemisone
Cat. No.:	CS-0015600
CAS No.:	255730-18-8
Molecular Formula:	C ₁₉ H ₃₁ NO ₆ S
Molecular Weight:	401.52
Target:	Parasite
Pathway:	Anti-infection
Solubility:	DMSO : 130 mg/mL (323.77 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Artemisone (Artemifone) is a potent and semi-synthetic **antimalarial**, inhibits *P. falciparum* strains, with a mean **IC₅₀** of 0.83 nM^[1]. **IC₅₀ & Target:** IC₅₀: 0.83 nM (*P. falciparum*)^[1] **In Vitro:** Artemisone inhibits 3D7 and K1 *P. falciparum*, with IC₅₀s of 0.88±0.59 and 1.23±0.64 nM, respectively^[1]. **In Vivo:** Artemisone is effective at inhibiting the parasitaemia in the *P. berghei* NY susceptible strain, with an ED₅₀ of 9.62 mg/kg via subcutaneous route and 11.67 mg/kg via oral administration^[1]. Artemisone (3, 1, 0.3 and 0.1 mg/kg, s.c.) in combination with other antimalarials has enhanced effect against the chloroquine-resistant line *P. yoelii* NS^[1]

References:

[1]. Vivas L, et al. Antimalarial efficacy and drug interactions of the novel semi-synthetic endoperoxide artemisone in vitro and in vivo. *J Antimicrob Chemother.* 2007 Apr;59(4):658-65.

CAIndexNames:

Thiomorpholine, 4-[(3R,5aS,6R,8aS,9R,10R,12R,12aR)-decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl]-, 1,1-dioxide

SMILES:

C[C@H]1[C@H](N2CCS(CC2)(=O)=O)O[C@@]3([H])[C@]45[C@@]([C@H](C)CC[C@]51[H])([H])CC[C@@](O3)(C)OO4

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

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