

alpha-Artemether

Chemical Properties

CAS No.:	71939-51-0
Formula:	C ₁₆ H ₂₆ O ₅
Molecular Weight:	298.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	alpha-Artemether is a Quinghaosu derivative with antifungal and antimalarial activity.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.351 mL	16.757 mL	33.514 mL
5 mM	0.670 mL	3.351 mL	6.703 mL
10 mM	0.335 mL	1.676 mL	3.351 mL
50 mM	0.067 mL	0.335 mL	0.670 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Tian L, Liu J, Jia Q, Ying Y, Yang Z, Huang G. Preparation and Evaluation of Artemether Liposomes for Enhanced Anti-Tumor Therapy. AAPS PharmSciTech. 2018 Feb;19(2):512-521. doi: 10.1208/s12249-017-0896-9. Epub 2017 Oct 16. PubMed PMID: 29038986.
2. Abd El-Aal NF, Hamza RS, Magdy M. Anti-angiogenic and anti-lymphangiogenic role of praziquantel and artemether in experimental mansoniasis. Acta Parasitol. 2017 Dec 20;62(4):708-716. doi: 10.1515/ap-2017-0085. PubMed PMID: 29035850.
3. Tan WQ, Chen G, Ye M, Jia B. Artemether Regulates Chemosensitivity to Doxorubicin via Regulation of B7-H3 in Human Neuroblastoma Cells. Med Sci Monit. 2017 Sep 3;23:4252-4259. PubMed PMID: 28866709; PubMed Central PMCID: PMC5594998.
4. Okorji UP, Velagapudi R, El-Bakoush A, Fiebich BL, Olajide OA. Antimalarial Drug Artemether Inhibits Neuroinflammation in BV2 Microglia Through Nrf2-Dependent Mechanisms. Mol Neurobiol. 2016 Nov;53(9):6426-6443. doi: 10.1007/s12035-015-9543-1. Epub 2015 Nov 25. PubMed PMID: 26607631.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481