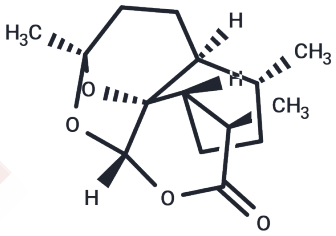
Data Sheet (Cat.No.TN1568)

TargetMol

Deoxyartemisinin

Chemical Properties



CAS No. : 72826-63-2

Formula: C15H22O4

Molecular Weight: 266.33

Storage: Keep away from direct sunlight,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Deoxyartemisinin (2-deoxyartemisinin), a compound derived from Artemisia annua, has anti-inflammatory and anti-ulcer effects and is used in the study of malaria.
Targets(IC50)	Others
In vitro	Biotransformation of artemisinin was investigated with two different cell lines of suspension cultures of Withania somnifera. Both cell lines exhibited potential to transform artemisinin into its nonperoxidic analogue, Deoxyartemisinin, by eliminating the peroxo bridge of artemisinin. The enzyme involved in the reaction is assumed to be artemisinin peroxidase, and its activity in extracts of W. somnifera leaves was detected [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7547 mL	18.7737 mL	37.5474 mL
5 mM	0.7509 mL	3.7547 mL	7.5095 mL
10 mM	0.3755 mL	1.8774 mL	3.7547 mL
50 mM	0.0751 mL	0.3755 mL	0.7509 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chunqing Fu, et al. Oral Bioavailability Comparison of Artemisinin, Deoxyartemisinin, and 10-Deoxoartemisinin Based on Computer Simulations and Pharmacokinetics in Rats. ACS Omega. 2020 Dec 28;6(1):889-899.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481