# Data Sheet (Cat.No.T14325)



## Arterolane

Chemical Propert	ies
CAS No. :	664338-39-0
Formula:	C22H36N2O4
Molecular Weight:	392.53
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year

## **Biological Description**

Description	Arterolane is an antimalarial compound. For against P. falciparum Ro73 and W2, the IC50s are both 1.1 nM.
Targets(IC50)	Others
In vitro	Arterolane (also known as Trioxolane 7; OZ277; RBx-11160) exhibits inhibitory effects on a variety of Plasmodium falciparum strains, demonstrating IC50 values as follows: 1.0, 1.6, 0.90, 0.91, 1.4, 1.5, 0.83, and 0.84 ng/mL against P. falciparum strains K1, Fc27, FVO, NF54, HB3, FCB1, ITG2-F6, and MAD20 respectively. Furthermore, this antimalarial agent shows potent efficacy with IC50s of 1.1 nM (0.43 ng/mL) against both P. falciparum strains Ro73 and W2.

## Solubility Information

Solubility	DMSO: 100 mg/mL (254.76 mM), Sonication is recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

## Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	2.5476 mL	12.7379 mL	25.4758 mL	
5 mM	0.5095 mL	2.5476 mL	5.0952 mL	
10 mM	0.2548 mL	1.2738 mL	2.5476 mL	
50 mM	0.051 mL	0.2548 mL	0.5095 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.

#### Reference

Vennerstrom JL, et al. Identification of an antimalarial synthetic trioxolane drug development candidate. Nature. 2004 Aug 19;430(7002):900-4.

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