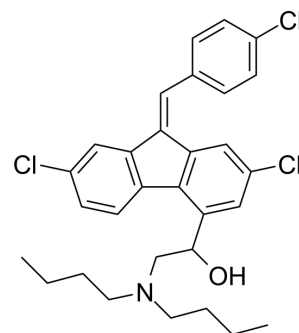


## Lumefantrine

<b>Cat. No.:</b>	HY-B0803		
<b>CAS No.:</b>	82186-77-4		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>32</sub> Cl <sub>3</sub> NO		
<b>Molecular Weight:</b>	528.94		
<b>Target:</b>	Parasite; Autophagy		
<b>Pathway:</b>	Anti-infection; Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMF : 25 mg/mL (47.26 mM; ultrasonic and warming and heat to 60°C)  
 DMSO : 2 mg/mL (3.78 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8906 mL	9.4529 mL	18.9057 mL
	5 mM	0.3781 mL	1.8906 mL	3.7811 mL
	10 mM	0.1891 mL	0.9453 mL	1.8906 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMF >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMF >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 0.2 mg/mL (0.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 0.2 mg/mL (0.38 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 0.2 mg/mL (0.38 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Lumefantrine is an antimalarial drug, used in combination with Artemether. The artemether-lumefantrine (AL) as the first- and second-line anti-malarial drugs.

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## CUSTOMER VALIDATION

- ACS Omega. 2019 Jan 31;4(1):2353-2361.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Ndounga M, et al. Artesunate-amodiaquine versus artemether-lumefantrine for the treatment of acute uncomplicated malaria in Congolese children under 10 years old living in a suburban area: a randomized study. Malar J. 2015 Oct 29;14(1):423.

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

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