Proteins

Product Data Sheet

Lumefantrine

Cat. No.: HY-B0803

CAS No.: 82186-77-4 Molecular Formula: $C_{30}H_{32}Cl_3NO$ Molecular Weight: 528.94

Target: Parasite; Autophagy

Pathway: Anti-infection; Autophagy

Powder -20°C 3 years 2 years

-80°C In solvent 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

Storage:

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

DMSO: 2 mg/mL (3.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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

- 1. 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
- 2. Add each solvent one by one: 10% DMF >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.73 mM); Clear solution
- 3. 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
- 4. 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
- 5. 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 firstand second-line anti-malarial drugs.

IC₅₀ & Target

Plasmodium

CUSTOMER VALIDATION

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

See more customer validations on 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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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