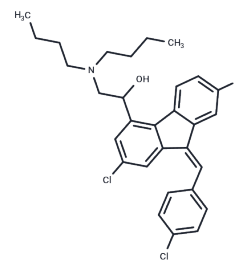


Lumefantrine

Chemical Properties

CAS No. :	82186-77-4
Formula:	C ₃₀ H ₃₂ Cl ₃ NO
Molecular Weight:	528.94
Storage:	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	Lumefantrine (dl-Benflumelol) is an antimalarial agent used to treat acute uncomplicated malaria. It is administered in combination with artemether for improved efficacy. This combination therapy exerts its effects against the erythrocytic stages of Plasmodium spp. and may be used to treat infections caused by P. falciparum and unidentified Plasmodium species, including infections acquired in chloroquine-resistant areas.
Targets(IC50)	Parasite, Autophagy

Solubility Information

Solubility	DMSO: 6.49 mg/mL (12.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0378 mL	0.1891 mL	0.3781 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

Ndounga M, et al. Malar J. 2015 Oct 29;14(1):423.

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