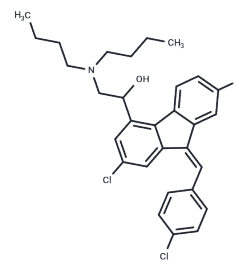


Lumefantrine

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 82186-77-4 |
| Formula: | C ₃₀ H ₃₂ Cl ₃ NO |
| Molecular Weight: | 528.94 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



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: 5.29 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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