

ELQ-598

Chemical Properties

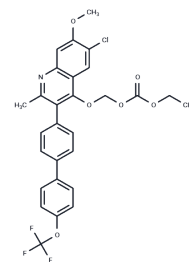
CAS No. : 3023709-99-8

Formula: C₂₈H₂₃ClF₃NO₆

Molecular Weight: 561.93

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	ELQ-598, a prodrug, is converted to the active drug ELQ-596 upon oral administration. It demonstrates potent parasitic growth inhibition capabilities (IC ₅₀ = 37 nM) and shows low toxicity towards human cells (IC ₅₀ = 19 μM). ELQ-598 can be used for research into babesiosis [1].
Targets(IC ₅₀)	Parasite
In vivo	ELQ-598 at a dosage of 10 mg/kg, administered orally from the third to the seventh day post-infection, effectively eradicates Babesia duncani infection in C3H mice and Babesia microti infection in mice. Additionally, combining ELQ-598 with atovaquone at the same dosage eradicates Babesia duncani in C3H/HeJ mice and Babesia microti in SCID mice. All treated mice survived without recurrence of infection, indicating the potent synergistic effect of the drug combination.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7796 mL	8.8979 mL	17.7958 mL
5 mM	0.3559 mL	1.7796 mL	3.5592 mL
10 mM	0.178 mL	0.8898 mL	1.7796 mL
50 mM	0.0356 mL	0.178 mL	0.3559 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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