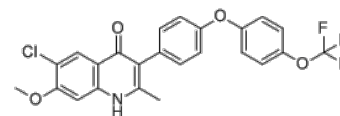


Product Name : ELQ-300
Cat. No. : PC-20296
CAS No. : 1354745-52-0
Molecular Formula : C₂₄H₁₇ClF₃NO₄
Molecular Weight : 475.85
Target : Parasite
Solubility : 10 mM in DMSO



Biological Activity

ELQ-300 (ELQ300) is a potent, selective inhibitor of *P. falciparum* mitochondrial **cytochrome bc1** complex with IC₅₀ of 0.56 nM.

ELQ-300 is potent in vitro against blood stage *P. falciparum* strains including a clinical isolate with a mutation in the cytochrome b gene that is associated with atovaquone resistance.

ELQ-300 has high in vitro selectivity for *P. falciparum* bc1 complex over the human enzyme complex and various mammalian cell types including hematopoietic stem cells.

ELQ-300 does not inhibit human cytochrome bc1 (IC₅₀ > 10 μM).

ELQ-300 inhibits *P. falciparum*-infected red blood cells with IC₅₀ of 6 nM.

ELQ-300 is active against liver, blood, and transmission stages of *Plasmodium falciparum*.

References

Nilsen A, et al. *Sci Transl Med*. 2013 Mar 20;5(177):177ra37.

Miley GP, et al. *Antimicrob Agents Chemother*. 2015 Sep;59(9):5555-60.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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