Supporting information

Effective Antimalarial Activities of α-Hydroxy Diynes Isolated from *Ongokea gore*
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Compound 1

![Graph showing inhibition percentage vs. log C (µg/L).]
Compound 2

Linear regression gives a more precise correlation.

\[ y = 25.05X + 46.888 \]

And at 50 %:

\[
50 = 25.05X + 46.888 \\
X = \frac{50 - 46.888}{25.05} = 0.124 \rightarrow C = 1.331
\]
**Compound 3**

The same applies to compound 3.

\[ y = 18.206X + 55.335 \]  And at 50%:

\[ 50 = 18.206X + 55.335 \]

\[ X = \frac{-5.335}{18.206} = -0.293 \quad \rightarrow \quad C = 0.509 \]
Standard compound (quinine)

For quinine, a non-linear regression gave the following:

\[ y = 58.5501 + 38.6526X - 8.7969X^2. \]

At 50%:

\[ 50 = 58.5501 + 38.6526X - 8.7969X^2 \]

\[-8.7969X^2 + 38.6526X + 8.5501 = 0 \]

\[ \sqrt{\Delta} = \pm 42.366 \]

\[ X_1 = 4.605 \rightarrow C_1 = 40267 \text{ (rejected value)} \]

\[ X_2 = -0.211 \rightarrow C_2 = 0.615 \text{ (retained value)} \]

**Fig. 1S.** IC\textsubscript{50} determinations as dose-response curves as well as the mathematical method of determination of the values for respectively compounds 1, 2, and 3 and the standard compound quinine.