

Supplementary Table (S1)

1-31 Compounds that have demonstrated antimalarial activity.

32-54 Compounds without the ability to inhibit the development of *P. falciparum* parasitemia by 50% at the tested concentrations (0.0488 - 50 μ M).

Compound	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	X	Y	IC ₅₀ (μ M)
1	H	H	Cl	H	Et	-	-	-	N	CH	11.65 $\pm$ 0.74
2	H	Cl	H	Cl	Et	-	-	-	N	CH	15.41 $\pm$ 2.26
3	H	Cl	H	Cl	Pr	-	-	-	N	CH	14.52 $\pm$ 1.71
4	Cl	H	H	Cl	Pr	-	-	-	N	CH	20.45 $\pm$ 0.73
5	H	Cl	H	Cl	Bu	-	-	-	N	CH	23.94 $\pm$ 2.01
6	H	H	H	H	-	OEt	-	-	N	CH	12.84 $\pm$ 3.02
7	H	H	H	H	-	-	Ph	-	N	CH	22.93 $\pm$ 0.34
8	H	H	H	H	-	-	Ph	-	CH	N	27.49 $\pm$ 1.26
9	H	H	Cl	H	-	-	nonyl	-	N	CH	2.80 $\pm$ 0.84
10	H	Cl	H	Cl	-	-	nonyl	-	N	CH	14.64 $\pm$ 0.29
11	H	H	OMe	H	-	-	nonyl	-	N	CH	23.46 $\pm$ 2.77
12	H	H	OMe	H	-	-	Ph	-	N	CH	13.53 $\pm$ 1.12
13	H	H	Cl	H	-	-	-	-	N	CH	6.67 $\pm$ 1.86
14	Cl	H	H	Cl	-	-	-	-	N	CH	21.52 $\pm$ 0.84
15	H	H	H	H	-	-	-	Ph	CH	N	18.05 $\pm$ 1.92
16	H	H	H	H	-	-	-	4-Cl-Ph	CH	N	9.29 $\pm$ 1.01
17	H	H	H	H	-	-	-	4-F-Ph	CH	N	14.68 $\pm$ 1.28
18	H	H	Cl	H	-	-	-	4-Cl-Ph	N	CH	17.61 $\pm$ 1.07
19	H	H	Cl	H	-	-	-	4-F-Ph	N	CH	8.45 $\pm$ 2.25
20	H	H	Cl	H	-	-	-	2,5-diCl-Ph	N	CH	13.58 $\pm$ 1.20
21	H	Cl	H	Cl	-	-	-	4-Br-Ph	N	CH	29.27 $\pm$ 0.34
22	H	Cl	H	Cl	-	-	-	2,5-diCl-Ph	N	CH	5.56 $\pm$ 0.47
23	H	Cl	H	Cl	-	-	-	2,5-diMe-Ph	N	CH	9.23 $\pm$ 1.68
24	H	H	OMe	H	-	-	-	Ph	N	CH	4.44 $\pm$ 1.43
25	H	H	OMe	H	-	-	-	4-Cl-Ph	N	CH	9.00 $\pm$ 3.27
26	Cl	H	H	Cl	-	-	-	2,5-diCl-Ph	N	CH	9.40 $\pm$ 2.87
27	H	H	H	H	-	-	-	-CO-4-pyridil	N	CH	23.12 $\pm$ 2.58
28	H	H	Cl	H	-	-	-	-CO-4-pyridil	N	CH	14.52 $\pm$ 1.13
20	H	Cl	H	Cl	-	-	-	-CO-4-pyridil	N	CH	6.96 $\pm$ 1.44
30	H	H	OMe	H	-	-	-	-CO-4-pyridil	N	CH	23.20 $\pm$ 1.94
31	H	H	H	H	-	-	-	-CO-4-pyridil	CH	N	20.16 $\pm$ 0.79
32	H	H	Cl	H	Bu	-	-	-	N	CH	ND
33	H	H	Cl	H	Pr	-	-	-	N	CH	ND
34	Cl	H	H	Cl	-	-	Me	-	N	CH	ND
35	H	H	Cl	H	-	-	Me	-	N	CH	ND
36	Cl	H	H	Cl	-	-	Ph	-	N	CH	ND
37	Cl	H	H	Cl	-	-	pentyl	-	N	CH	ND
38	H	H	Cl	H	-	-	pentyl	-	N	CH	ND
30	H	H	Cl	H	-	-	Ph	-	N	CH	ND
40	H	H	OMe	H	-	-	nonyl	-	N	CH	ND
41	H	H	OMe	H	-	-	pentyl	-	N	CH	ND
42	H	Cl	H	Cl	-	-	pentyl	-	N	CH	ND
43	H	Cl	H	Cl	-	-	Me	-	N	CH	ND
44	H	Cl	H	Cl	-	-	Ph	-	N	CH	ND

45	H	H	H	H	-	-	nonyl	-	N	CH	ND
46	H	Cl	H	Cl	-	-	-	-	N	CH	ND
47	H	H	H	H	-	-	-	4-F-Ph	N	CH	ND
48	H	H	H	H	-	-	-	4-Br-Ph	N	CH	ND
49	H	H	Cl	H	-	-	-	Ph	N	CH	ND
50	H	H	Cl	H	-	-	-	4-Br-Ph	N	CH	ND
51	H	Cl	H	Cl	-	-	-	4-Cl-Ph	N	CH	ND
52	H	H	OMe	H	-	-	-	4-Br-Ph	N	CH	ND
53	H	H	OMe	H	-	-	-	4-F-Ph	N	CH	ND
54	H	H	OMe	H	-	-	-	2,5-diMe-Ph	N	CH	ND