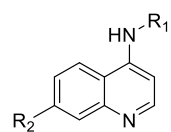
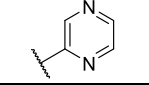
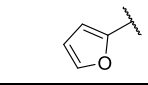
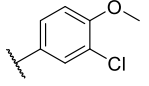
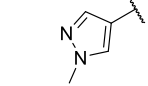
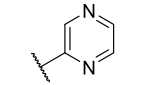
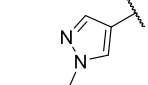
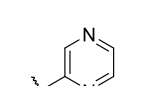
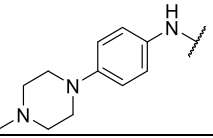
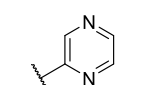
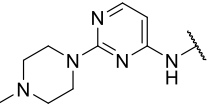
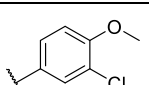
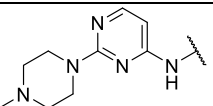
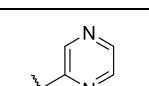
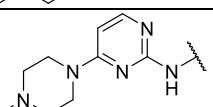
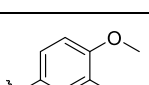
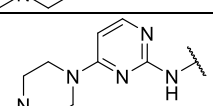
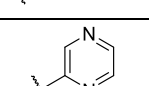
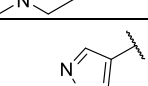
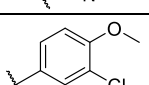
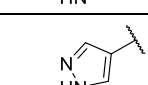
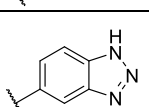
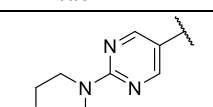
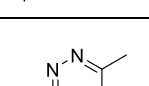
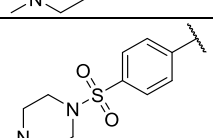
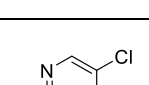
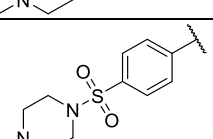
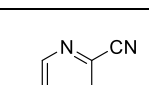
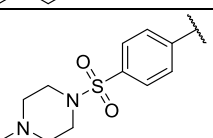

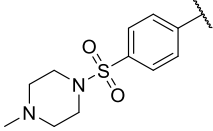

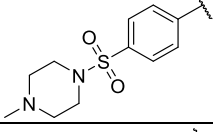

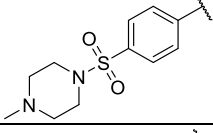
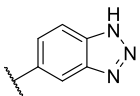
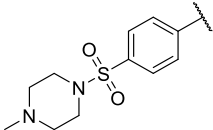


**Table S1. Screening data for remaining compounds in the data set**



Molecule Name	R <sub>1</sub> (head)	R <sub>2</sub> (tail)	<i>L. major</i> amastigote EC <sub>50</sub> (μM) <sup>a</sup>	<i>T.b. brucei</i> EC <sub>50</sub> (μM) <sup>b</sup>	<i>T. cruzi</i> amastigote EC <sub>50</sub> (μM) <sup>b</sup>	3T3 TC <sub>50</sub> (μM)	HepG2 TC <sub>50</sub> (μM) <sup>c</sup>
NEU-2151			26	2.3	> 50	> 100	22
NEU-2150			31	29	21	> 100	48
NEU-2149			5.3	2.3	> 50	> 50	5
NEU-2148			4.7	7.6	> 50	> 100	36
NEU-2147			5.5	49	> 50	> 100	42
NEU-2146			27	17	> 50	> 100	40
NEU-2145			28	4.7	> 50	> 50	11
NEU-2144			28	14	> 50	> 50	35
NEU-2143			28	14	> 50	> 50	29
NEU-2142			26	23	> 50	> 100	39
NEU-2141			24	4.4	22	24	7.1
NEU-2134			27	> 20	1.2	> 100	42
NEU-2133			33	5.3	0.79	> 50	50

NEU-2131			35	4.8	4.7	> 100	53
NEU-2130			29	2.6	1.9	> 100	44
NEU-2129			33	3.3	2.4	37	40
NEU-2096			7.9	0.91	17	nd	17
NEU-2094			3.2	0.81	> 50	nd	21
NEU-2093			4.6	0.34	8.1	15	4.7
NEU-2091			5.3	0.38	> 20	nd	22
NEU-2090			2.3	0.35	> 20	nd	7.6
NEU-2088			3	0.29	> 50	nd	4.5
NEU-2087			29	0.91	> 50	nd	23
NEU-1957			21	21	> 50	> 100	14
NEU-1028			4	> 50	> 50	> 100	6.4
NEU-1025			8.7	1.5	8.8	11	31
NEU-1024			19	3	> 50	> 100	31

<b>NEU-1023</b>			8.4	0.6	25	> 100	35
<b>NEU-1020</b>			22	> 50	> 50	> 100	36
<b>NEU-1019</b>			22	5.4	> 50	> 100	36
<b>NEU-1018</b>			17	> 50	> 50	> 100	28

nd=not determined

<sup>a</sup>All  $r^2$  values are >0.9 unless noted otherwise

<sup>b</sup>All SEM values within 25% except for NEU-1957 where  $EC_{50}$  *T. brucei* 21 (SEM: 8.2; 39%) and NEU-1025 where  $EC_{50}$  *T. cruzi* 8.8 (SEM: 2.6; 32%)

<sup>c</sup>Tested concentration ranges were determined based on compound solubility