

TABLE S1. Cytotoxicity and selectivity index (SI) of selenium-compounds against different host cell lines and promastigote forms of *Leishmania amazonensis*.

Compound	IC50 <i>L. amazonensis</i> (μ M)	CC50 NIH/3T3 (μ M)	Selectivity Index (SI)	CC50 J774 (μ M)	Selectivity Index (SI)	CC50 peritoneal cells (μ M)	Selectivity Index (SI)
101	30.46 \pm 1.17	> 200	6.57	> 200	6.57	> 200	6.57
102	15.15 \pm 1.12	> 200	13.20	> 200	13.20	> 200	13.20
103	15.48 \pm 1.13	> 200	12.92	> 200	12.92	> 200	12.92
104	16.17 \pm 1.19	> 200	12.37	126.7 \pm 1.04	7.84	> 200	12.37
105	12.17 \pm 1.12	87.85 \pm 1.09	7.22	60.16 \pm 1.04	4.94	> 200	16.43
106	3.96 \pm 1.09	> 200	50.53	> 200	50.53	> 200	50.53
107	27.37 \pm 1.24	> 200	7.31	> 200	7.31	> 200	7.31
108	4.23 \pm 2.00	> 200	47.31	> 200	47.31	> 200	47.31
111	17.55 \pm 1.18	> 200	11.40	> 200	11.40	> 200	11.40
113	40.98 \pm 1.31	> 200	4.88	> 200	4.88	> 200	4.88
ANFB	9.407 \pm 1.13	19.26 \pm 1.01	2.05	27.34 \pm 0.92	2.91	25.15 \pm 0.82	2.67

The antileishmanial activity of selenium-compounds was evaluated against promastigote forms of *L. amazonensis* after 48 hours. The cytotoxicity was performed in NIH/3T3 cells, J774A.1 cells and peritoneal macrophages. Selectivity index (SI) was calculated as CC50/IC50 values for Abbreviations: CC50 = half-maximal cytotoxic concentration; IC50 = half-maximal inhibitory concentration; SD = standard deviation; SI = selectivity index. ANFB = amphotericin B used as reference drug for *L. amazonensis*.

TABLE S2. Cytotoxicity and selectivity index (SI) of selenium-compounds against different host cell lines and intracellular amastigotes forms of *Leishmania amazonensis*.

Compound	IC50 <i>L. amazonensis</i> (μ M)	CC50 NIH/3T3 (μ M)	Selectivity Index (SI)	CC50 J774 (μ M)	Selectivity Index (SI)	CC50 peritoneal cells (μ M)	Selectivity Index (SI)
101	> 50	> 200	ind	> 200	ind	> 200	ind
102	> 50	> 200	ind	> 200	ind	> 200	ind
103	> 50	> 200	ind	> 200	ind	> 200	ind
104	> 50	> 200	ind	126.7 \pm 1.04	ind	> 200	ind
105	> 50	87.85 \pm 1.09	ind	60.16 \pm 1.04	ind	> 200	ind
106	> 50	> 200	ind	> 200	ind	> 200	ind
107	18.31 \pm 1.50	> 200	10.92	> 200	10.92	> 200	10.92
108	> 50	> 200	ind	> 200	ind	> 200	ind
111	> 50	> 200	ind	> 200	ind	> 200	ind
113	15.93 \pm 1.69	> 200	12.55	> 200	12.55	> 200	12.55
ANFB	0.97 \pm 1.14	19.26 \pm 1.01	25.92	27.34 \pm 0.92	28.19	25.15 \pm 0.82	25.93

The antileishmanial activity of selenium-compounds was evaluated against intracellular amastigotes forms of *L. amazonensis* after 24 hours. The cytotoxicity was performed in NIH/3T3 cells, J774A.1 cells and peritoneal macrophages. Selectivity index (SI) was calculated as CC50/IC50 values for Abbreviations: CC50 = half-maximal cytotoxic concentration; IC50 = half-maximal inhibitory concentration; SD = standard deviation; SI = selectivity index. ANFB = amphotericin B used as reference drug for *L. amazonensis*. Ind = means indetermined results.