**Tryparedoxin peroxidase-deficiency commits trypanosomes to ferroptosis-type cell death**

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**Supplementary file 1**

**A.** Trypanocidal activity of RSL3 towards bloodstream *T. brucei*

EC50-value ± SD (µM)

Treatment 24 h 48 h 72 h

(*1S,3R*)-RSL31 2.1 ± 1.1 1.9 ± 0.6 4.5 ± 1.8

RSL3 racemate1 3.6 ± 1.2 3.7 ± 1.5 8.1 ± 1.9

RSL3 racemate + Trolox1 2.2 ± 0.8 2.4 ± 0.6 7.6 ± 2.3

(*1S,3R*)-RSL3 + Trolox2 2.3 ± 0.3 3.5 ± 0.0 8.7 ± 0.3

(*1S,3R*)-RSL3 + Liproxstatin-12 3.1 ± 0.2 3.6 ± 0.0 8.6 ± 0.2

(*1S,3R*)-RSL3 + Ferrostatin-12 2.3 ± 0.3 3.7 ± 0.2 8.3 ± 0.6

Chlorhexidine1 0.5 ± 0.1 0.3 ± 0.1 0.4 ± 0.2

**B.**  *In vitro* inhibitory potency of RSL3 on the parasite peroxidase cascade

Inactivation (%)

Incubation time (min) + Pxa - Pxb

1 20 17

15 26 19

40 40 39