Supplementary Materials

Coenzyme Q_{10} as an Inhibitor of Effector Release from one-Electron-Reduced Bioreductive Anticancer Prodrugs

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A. Determination of *k*frag. for the radical anion of tarloxotinib.in water

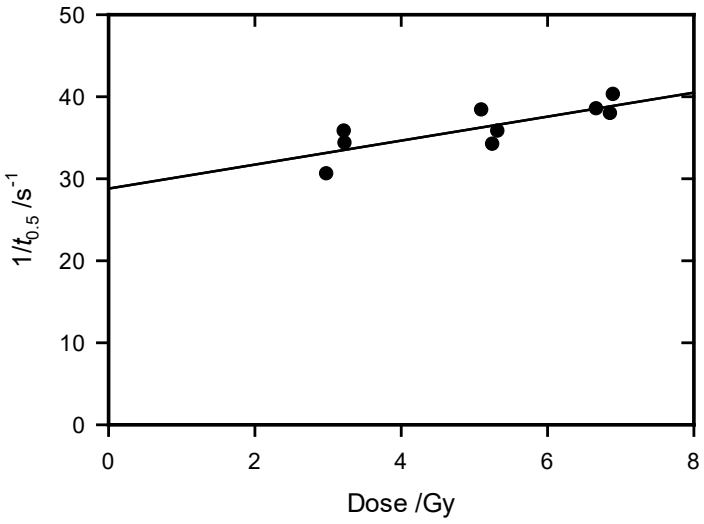


Figure S1. Dependence of the reciprocal of the first half-lifes of transients on radiation dose observed at 420 nm following pulse radiolysis of tarloxotinib (1 mM), sodium formate (0.1 M) and sodium phosphate (2.5 mM) at pH 7 in N_2-saturated water.

B. Rate constant for the reaction of the radical anion of tarloxotinib with O_2 in water

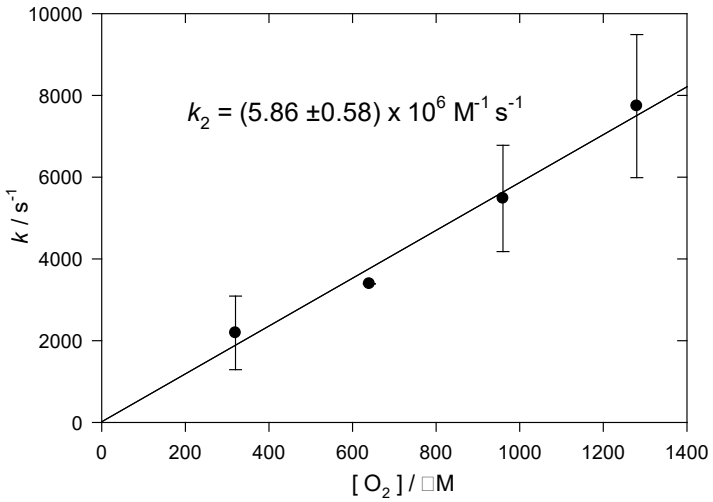


Figure S2. Dependence of the 1st-order rate constants for the decay of the radical anion of tarloxotinib observed at 440 nm on the concentration of O_2 following pulse radiolysis (ca. 10 Gy in 200 ns) of solutions saturated with O_2/N_2O mixtures, containing tarloxotinib (1 mM), sodium formate (0.1 M) and sodium phosphate (2.5 mM) at pH 7 (●) (The 2nd-order rate constant, k_2, is derived from the slope of the graph).

C. Rate constant for the reaction of the radical anion of tirapazamine with O_2 in methanol

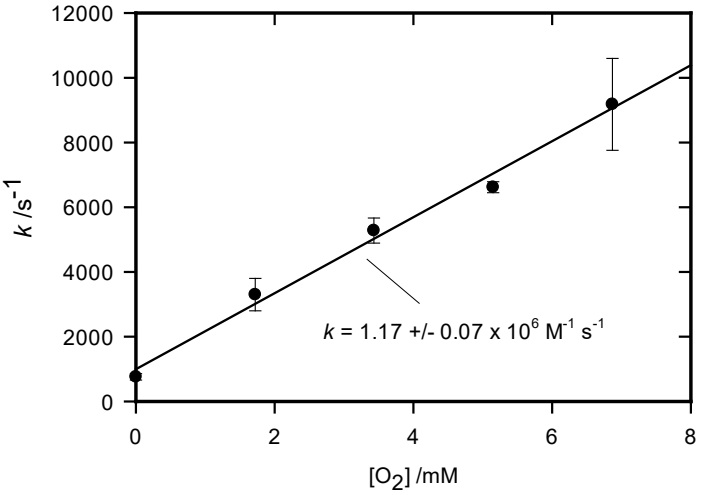


Figure S3. Dependence of the 1st-order rate constants for the decay of the radical anion of tirapazamine observed at 360 nm on the concentration of O_2 following pulse radiolysis (ca. 10 Gy in 200 ns) of solutions saturated with O_2/N_2 mixtures, containing tirapazamine (1 mM) in methanol (●).

D. **Rate constant for the reaction of the radical anion of SN30000 with O_2 in methanol**

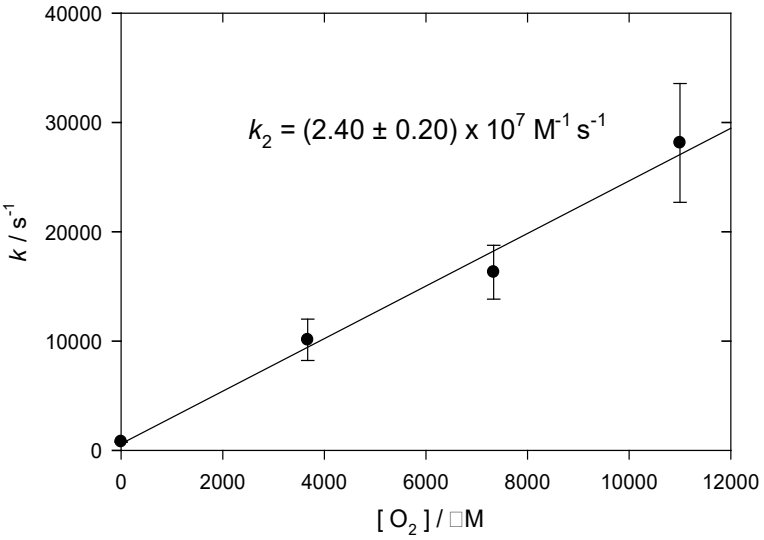


Figure S4. Dependence of the 1st-order rate constants for the decay of the radical anion of SN30000 observed at 360 nm on the concentration of O_2 following pulse radiolysis (ca. 10 Gy in 200 ns) of solutions saturated with O_2/N_2 mixtures, containing SN30000 (1 mM) in methanol (●).

E. **Rate constant for the reaction of the radical anion of evofosfamide with O_2 in methanol**

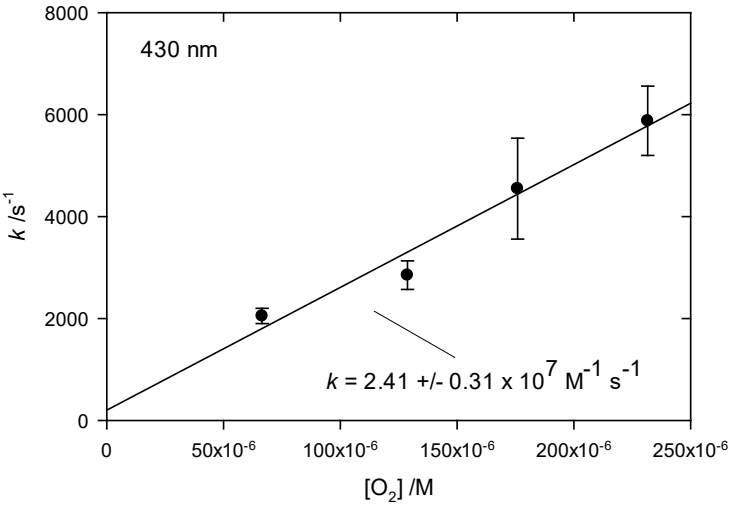


Figure S5. Dependence of the 1st-order rate constants for the decay of the radical anion of evofosfamide observed at 440 nM on the concentration of O_2 following pulse radiolysis (ca. 10 Gy in 200 ns) of solutions saturated with O_2/N_2 mixtures, containing evofosfamide (1 mM) in methanol (●).

F. Rate constant for the reaction of the radical anion of tarloxotinib with O_2 in methanol

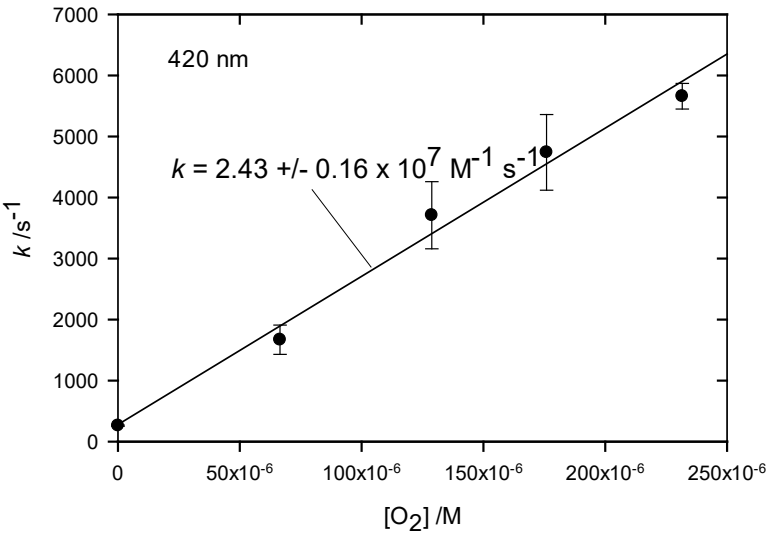


Figure S6. Dependence of the 1st-order rate constants for the decay of the radical anion of tarloxotinib observed at 420 nm on the concentration of O_2 following pulse radiolysis (ca. 10 Gy in 200 ns) of solutions saturated with O_2/N_2 mixtures, containing tarloxotinib (1 mM) in methanol (●).