Supporting Information

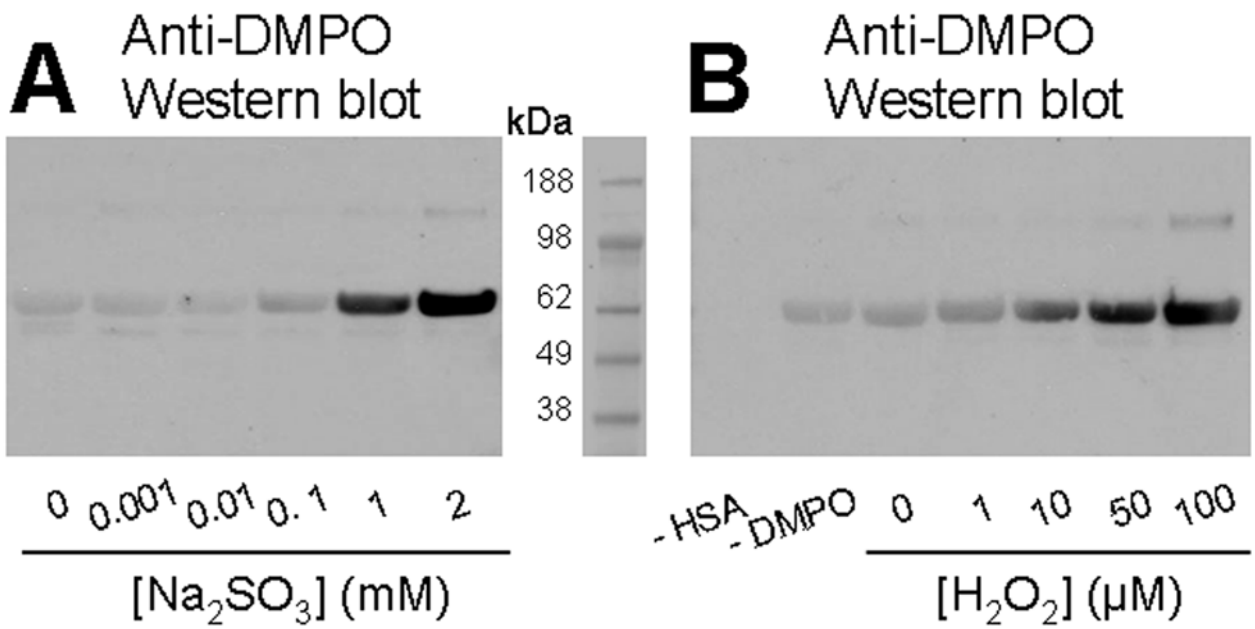

Fig. S1. (A) Concentration-dependent effects of Na_2SO_3 on the formation of HSA radical-derived nitrone adducts by Western blotting. Reactions including HSA (600 μM), H_2O_2 (100 μM), DMPO (1 mM) and sulfite as indicated were initiated with 1 μM EPO, and the mixtures were incubated for 1 h at 37 °C in 100 mM phosphate buffer (pH 7.4). (B) Concentration-dependent effects of hydrogen peroxide on the formation of HSA radical-derived nitrone adducts by Western blotting. Reactions including HSA (600 μM), Na_2SO_3 (2 mM), DMPO (1 mM) and H_2O_2 as indicated were initiated with 1 μM EPO, and the mixtures were incubated for 1 h at 37 °C in 100 mM phosphate buffer (pH 7.4). Each lane contained 3.8 μg of HSA.

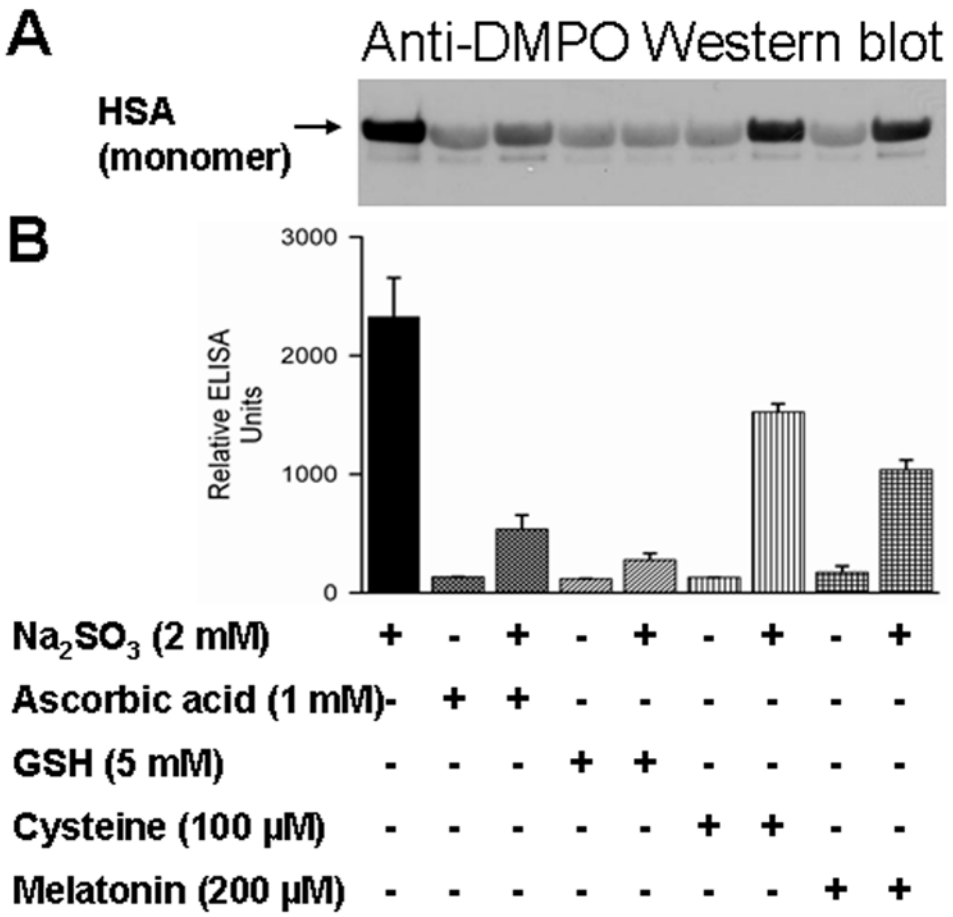

Fig. S2. Effect of inhibitors on the formation of DMPO-HSA-derived radical nitrone adducts. (A) Western blotting. (B) ELISA. Reaction mixtures containing HSA (600 µM), Na_2SO_3 (2 mM), DMPO (1 mM), and H_2O_2 (100 µM) with and without the indicated concentrations of ascorbic acid, GSH, cysteine, and melatonin were initiated by EPO (1 µM). ELISA data presented are the means ± s.d. from three independent determinations using fresh preparations of all reaction components.