Compound I in Heme Oxygenase can not Hydroxylate its Heme meso-Carbon Atom

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Figure S-1. Absorption spectral change during the reaction of ferric-heme–HO-1 (4 μ M) with *m*CPBA (5 μ M) at longer incubation time. The ferric heme (*black broken line*) was converted to compound II (*black solid line*) through compound I at 10 sec after addition of *m*CPBA at 20 °C in 0.1 M potassium phosphate buffer, pH 7.0. Compound II was reduced to the ferric state over several hours (*red lines*). The incomplete reproduction of the ferric heme can be partly due to excess *m*CPBA because HO compound II was bleached by reaction with another *m*CPBA.