Supplementary Material

Hydroxylated and Sulfated Metabolites of Commonly Observed Airborne Polychlorinated Biphenyls Display Selective Uptake and Toxicity in N27, SH-SY5Y, and HepG2 Cells

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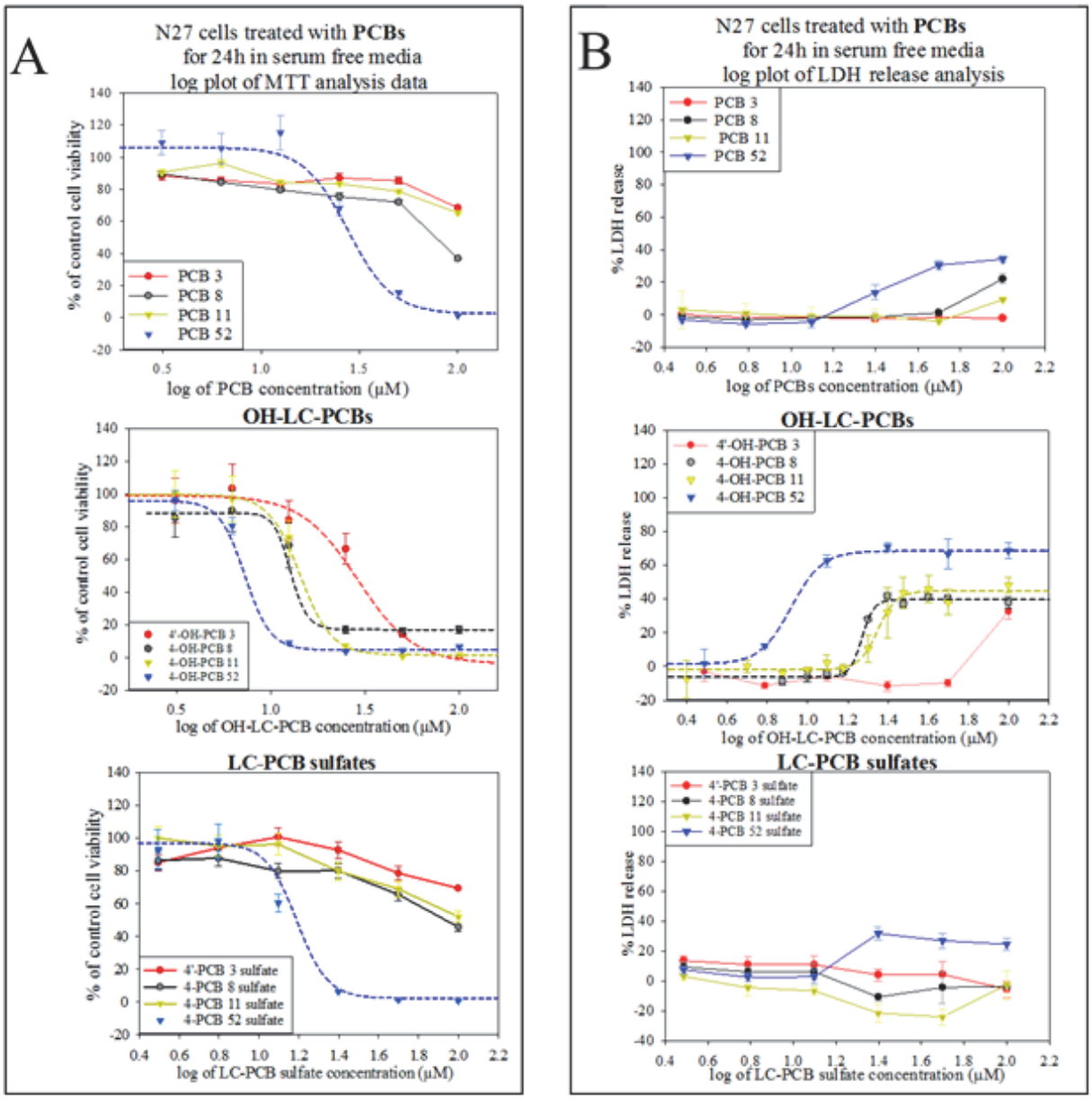

Figure S1. The viability of N27 cells after exposure to PCBs, OH-PCBs, and PCB sulfates in serum free media for 24 h as assessed by the reduction of MTT (panel A), and LDH release (panel B).

The data were represented as a percent of vehicle control vs. the log of the concentration of the PCB derivative, and fit to a four parameter logistic curve using SigmaPlot v.11.0, Systat Software, Chicago, IL. Data points are the mean ± SEM, n=3.

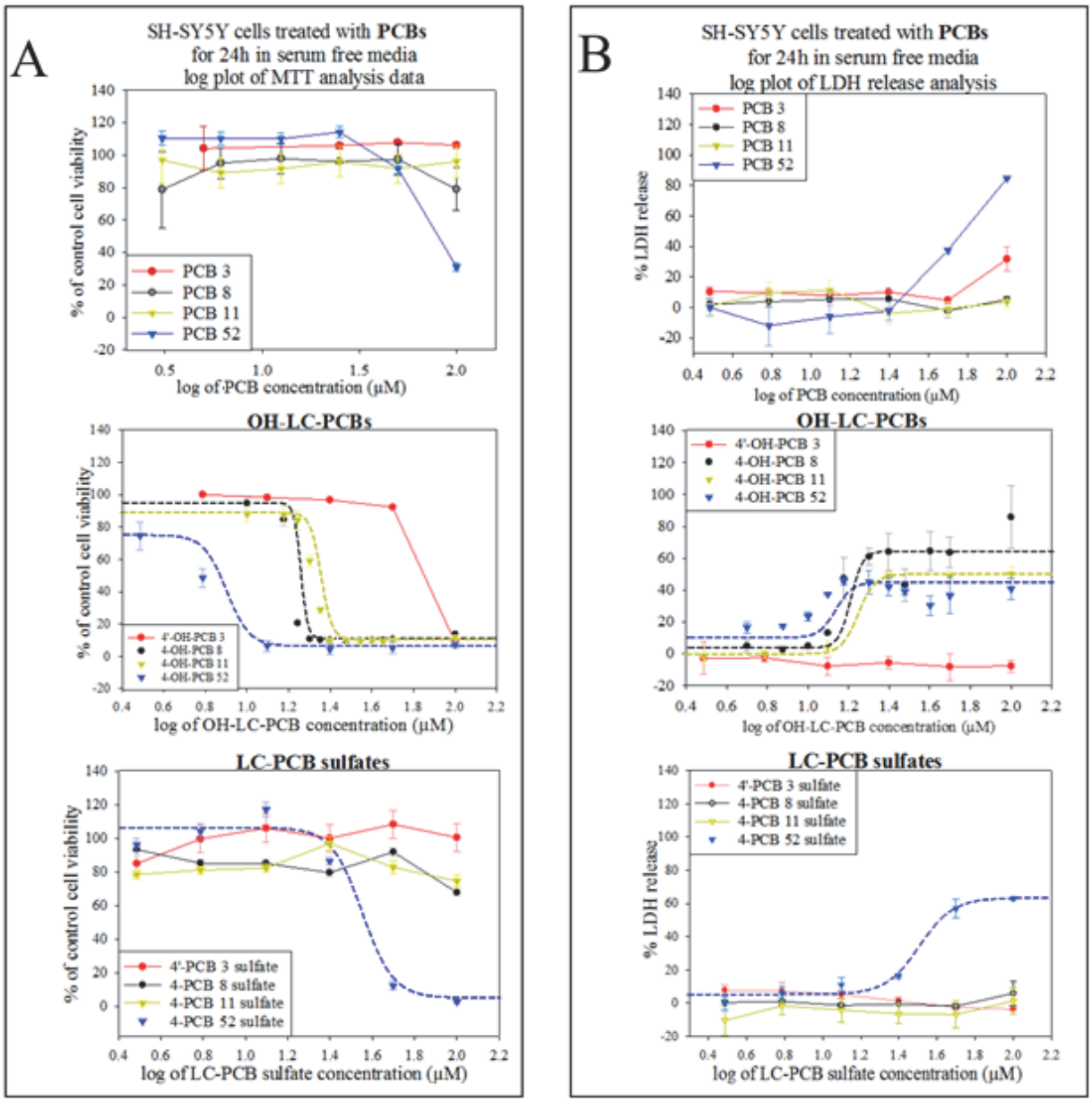

Figure S2. The viability of SH-SY5Y cells after exposure to PCBs, OH-PCBs, and PCB sulfates in serum free media for 24 h as assessed by the reduction of MTT (panel A), and LDH release (panel B).

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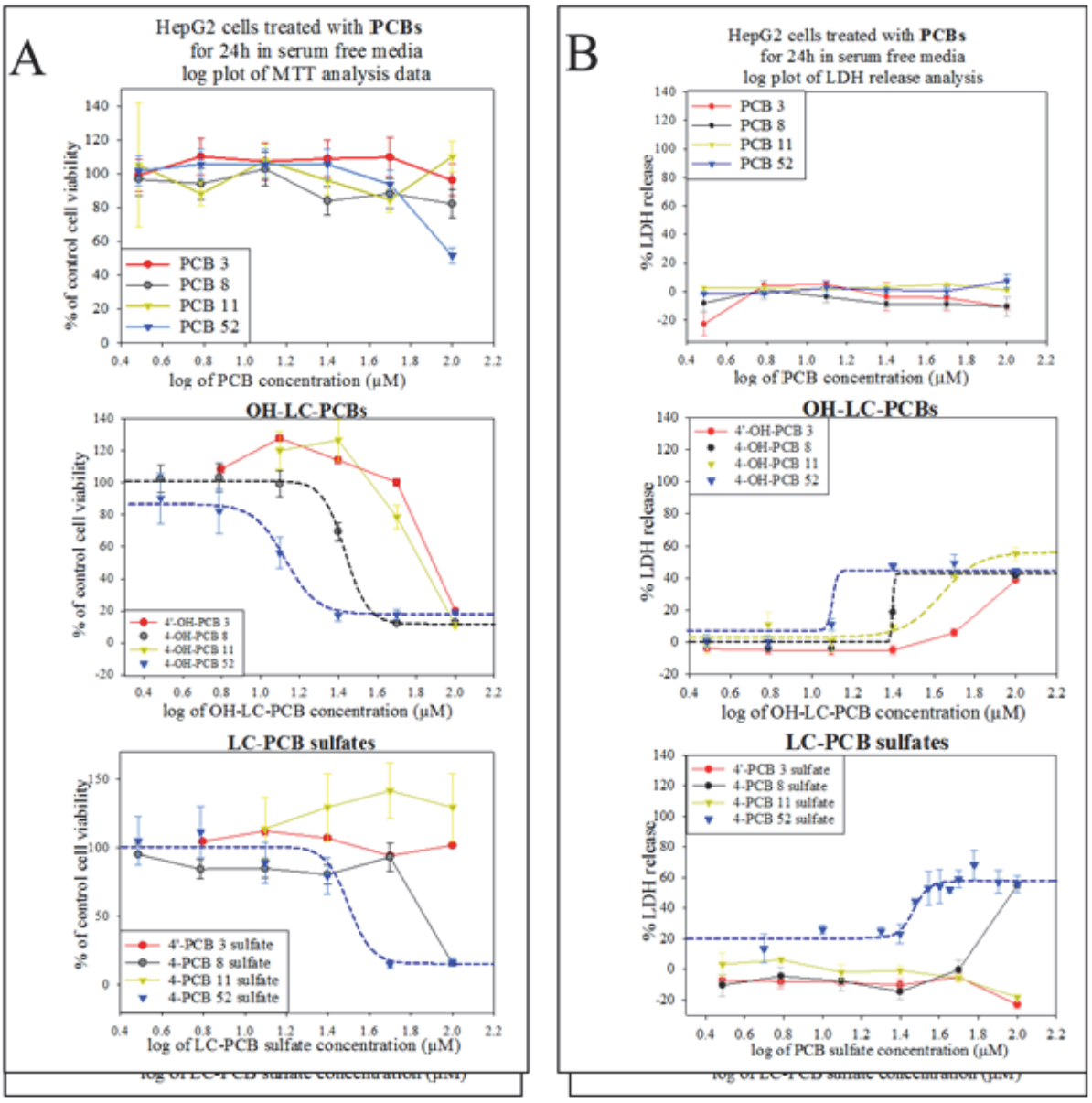

Figure S3. The viability of HepG2 cells after exposure to PCBs, OH-PCBs, and PCB sulfates in serum free media for 24 h as assessed by the reduction of MTT (panel A), and LDH release (panel B).

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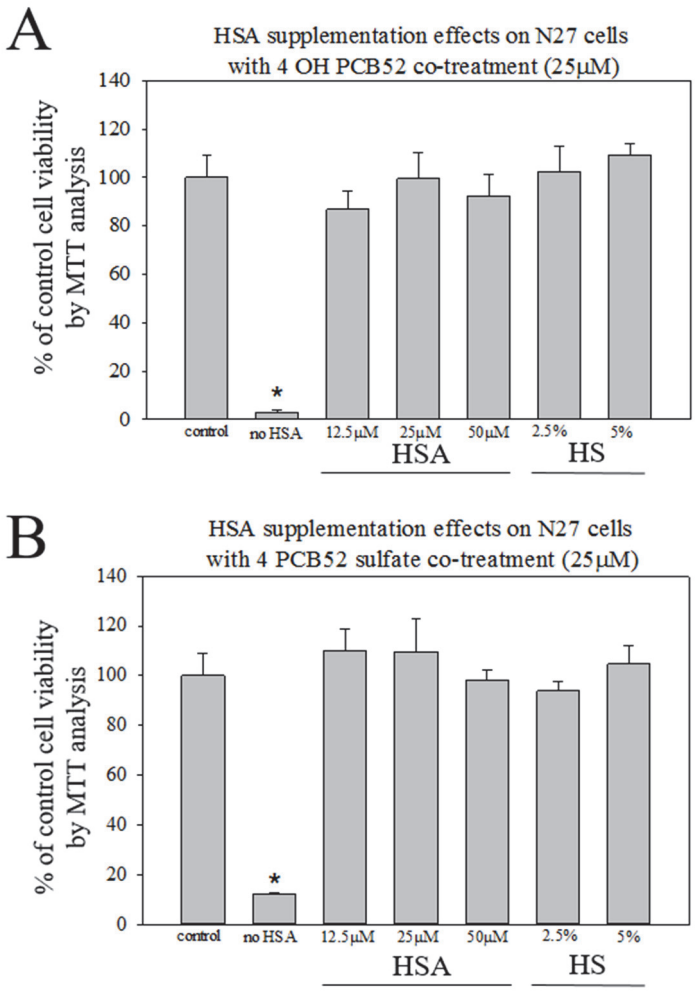

Figure S4. The presence of human serum albumin (HSA) or horse serum (HS) supplementation in cell media mitigates the cytotoxic effects of both 4-OH-PCB 52, and 4-PCB 52 sulfate in N27 cells.

N27 cells treated with 25 μM PCB metabolite were co-incubated with increasing amounts of HSA or horse serum. Data are reported as the percent of control cell viability by MTT analysis. n=3, (* $P<0.001$ of control)

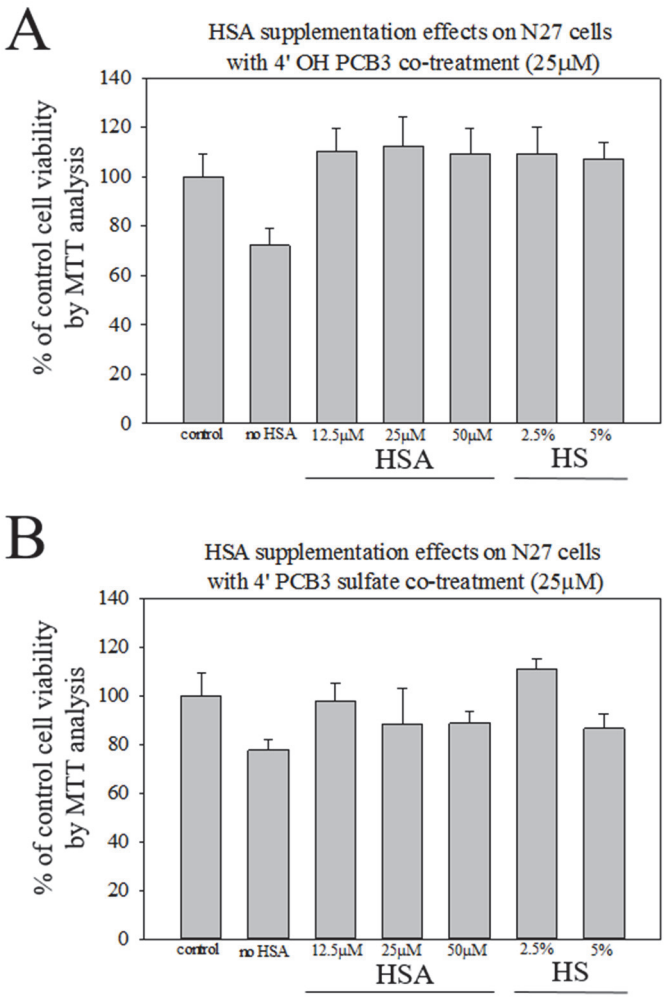

Figure S5. The presence of human serum albumin (HSA) or horse serum (HS) supplementation in cell media mitigates the cytotoxic effects of both 4'-OH-PCB 3, and 4'-PCB 3 sulfate in N27 cells.

N27 cells treated with 25 μM PCB metabolite were co-incubated with increasing amounts of HSA or horse serum. Data are reported as the percent of control cell viability by MTT analysis. n=3

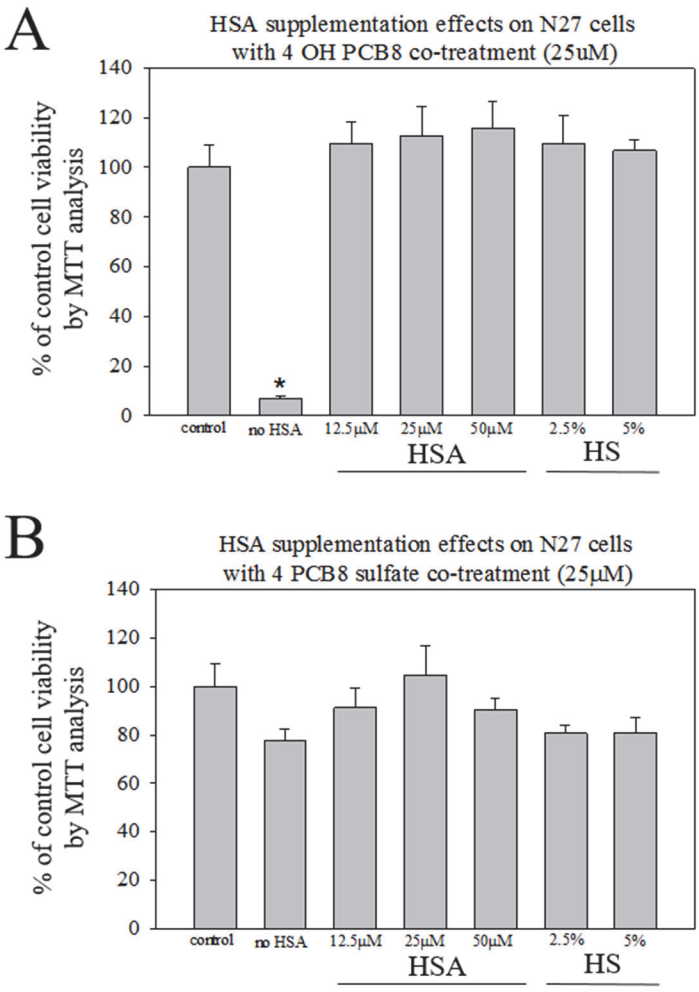

Figure S6. The presence of human serum albumin (HSA) or horse serum (HS) supplementation in cell media mitigates the cytotoxic effects of both 4-OH-PCB 8, and 4-PCB 8 sulfate in N27 cells.

N27 cells treated with 25 µM PCB metabolite were co-incubated with increasing amounts of HSA or horse serum. Data are reported as the percent of control cell viability by MTT analysis. n=3, (* $P<0.001$ of control)

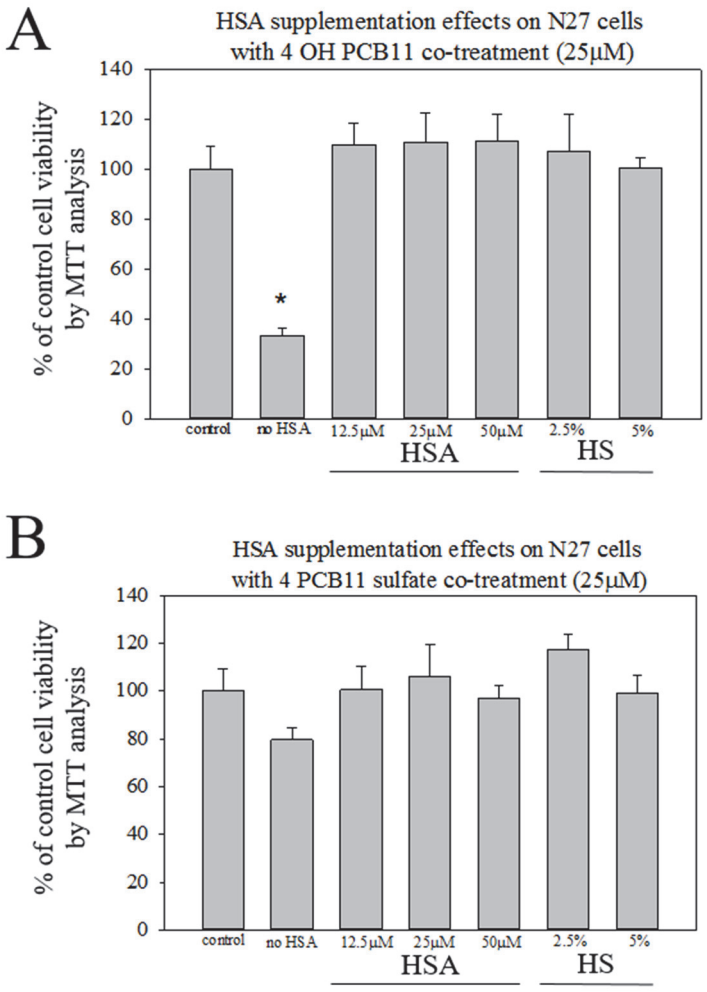

Figure S7. The presence of human serum albumin (HSA) or horse serum (HS) supplementation in cell media mitigates the cytotoxic effects of both 4-OH-PCB 11, and 4-PCB 11 sulfate in N27 cells.

N27 cells treated with 25 µM PCB metabolite were co-incubated with increasing amounts of HSA or horse serum. Data are reported as the percent of control cell viability by MTT analysis. n=3, (* $P<0.001$ of control)