Supplementary figure legends

Supplementary Fig. 1C – Western blotting showed changes in biochemical markers of neuronal differentiation and cell proliferation. Treatments: control, 0.5 μM 4-HPR for 72 h, 25 μM GST for 24 h, and 0.5 μM 4-HPR for 48 h (pretreatment) + 25 μM GST for 24 h. The OD value of the band in each control treatment was designated as 100. The change in level of expression was shown in a treatment relative to control. (a) Mean values (with SEM) show changes in the levels of expression of N-Myc, Notch-1, Hes-1, Id2, Fibronectin, hTERT, and PCNA. (b) Mean values (with SEM) show changes in the levels of expression of e-cadherin. Data presented here were obtained from three independent experiments.

Supplementary Fig. 3A – Flow cytometric analysis of cell cycle. Treatments: control, 0.5 μM 4-HPR for 72 h, 25 μM GST for 24 h, and 0.5 μM 4-HPR for 48 h (pretreatment) + 25 μM GST for 24 h. The bar graphs show the differential distribution of cell populations in the G0/G1 (a), G2/M (b), S (c), and sub G1 (d) phases. Data presented here were obtained from three independent experiments.

Supplementary Fig. 3B – Western blotting to examine changes in cytosolic levels of molecular markers associated with cell cycle arrest at G1/S phase. Treatments: control, 0.5 μM 4-HPR for 72 h, 25 μM GST for 24 h, and 0.5 μM 4-HPR for 48 h (pretreatment) + 25 μM GST for 24 h. The OD value of the band in each control treatment was designated as 100. The change in level of expression was shown in a treatment relative to control. (a) Mean values (with SEM) show changes in the levels of expression of acetylated p53 (Ac-p53), p53, CDK2, Rb, pRB, E2F1, MAD2, and survivin. (b) Mean values (with SEM) show changes in the levels of expression of p21. Data presented here were obtained from three independent experiments.

Supplementary Fig. 5 – Western blotting to examine the changes in levels of angiogenic, invasive, and survival factors. Treatments: control, 0.5 μM 4-HPR for 72 h, 25 μM GST for 24 h, and 0.5 μM 4-HPR for 48 h (pretreatment) + 25 μM GST for 24 h.

The OD value of the band in each control treatment was designated as 100. The change in level of expression was shown in a treatment relative to control. Mean values (with SEM) show changes in the levels of expression of PTEN, VEGF, b-FGF, EGFR, MMP-2, MMP-9, p-Akt, NF-κB, and Erk 1/2 in SH-SY5Y cells (a) and SK-N-BE2 cells (b). Data presented here were obtained from three independent experiments.

Supplementary Fig. 6 – Western blotting to examine the molecular components of the extrinsic and intrinsic pathways of apoptosis. Treatments: control, 0.5 μM 4-HPR for 72 h, 25 μM GST for 24 h, and 0.5 μM 4-HPR for 48 h (pretreatment) + 25 μM GST for 24 h. The OD value of the band in each control treatment was designated as 100. The change in level of expression was shown in a treatment relative to control. (a) Mean values (with SEM) show changes in the levels of expression of active caspase-8, tBid, Bax, Bcl-2, active caspase-3, and ICAD fragment. (b) The bar graphs show the changes in Bx:Bcl-2 ratio. Data presented here were obtained from three independent experiments.