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Electronic Supplementary Information

Graphene-polydopamine- C_{60} nanohybrid: an efficient cytoprotective agent for NO-induced cytotoxicity in rat pheochromocytoma cells

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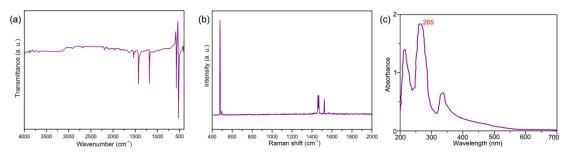


Fig. S1 (a) FT-IR spectra of C₆₀; (b) Raman spectra of C₆₀; (c) UV-Vis spectra of C₆₀.



Fig. S2 Photograph of aqueous dispersions GO, rGO-PDA, and rGO-PDA- C_{60} (50 $\mu g/mL$) after 3 days.

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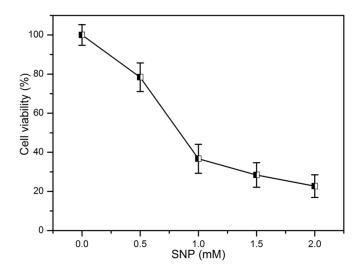


Fig. S3 The dependent of the cell viability on the concentration of SNP. Cell viability was measured by the conventional MTT reduction assay. Data were presented as mean \pm S.D. (n=3).

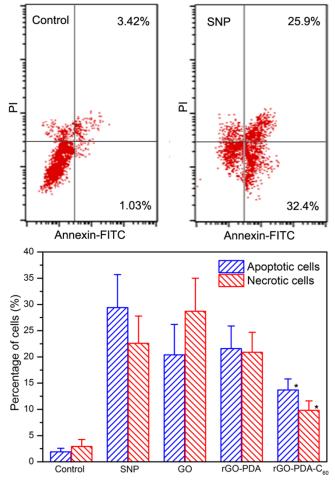


Fig. S4 rGO-PDA- C_{60} prevents NO-mediated apoptosis. The figure showed representative flow cytometric histograms of (a) untreated cells and (b) cells exposed to 1 mM SNP. (c) PC12 cells were incubated with 1 mM SNP for 24 h in the absence or presence of 50 μ g/mL nanocarbons. Apoptotic cell death was analyzed by double staining with annexin V-FITC and PI. Cells were incubated at 4 °C for 30 min in the dark with annexin V- FITC and PI, then were analyzed on a FACS Vantage SE flow cytometer (Becton Dickinson). Data were presented as mean \pm S.D. (n=3). *p < 0.05 compared to the group treated with SNP only.