Supporting Information

Hypoxia-dissociable siRNA nanoplatform for synergistically enhanced

chemo-radiotherapy of glioblastoma

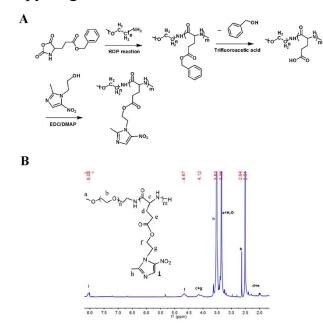
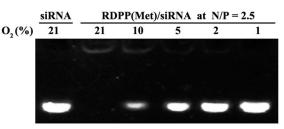
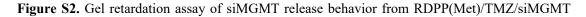


Figure S1. (A) Synthetic routes of PEG_{2000} -Poly(Met) block copolymers by ROP reaction and condensation reaction. (B) ¹H NMR spectrum recorded for PEG_{2000} -Poly(Met) in DMSO-*d*6.





at different oxygen concentrations.

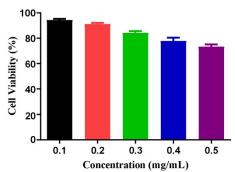


Figure S3. Cytotoxicity of RDPP(Met) evaluated by MTT assay.

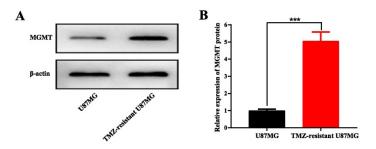


Figure S4. (A) MGMT protein level in U87MG cells and TMZ-resistant U87MG cells by western blot analysis. (B) Relative expression of MGMT protein level in U87MG cells and TMZ-resistant U87MG cells by western blot analysis. Data are shown as mean \pm SD (n = 3), ***P < 0.001.

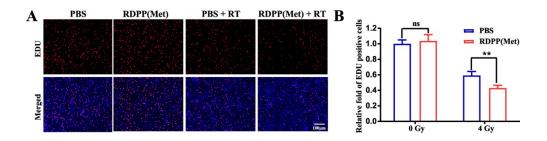


Figure S5. (A) U87MG cell proliferation was examined by EdU incorporation assay at 24 h after treatment with PBS, PBS combination with 4 Gy X-ray, RDPP(Met), RDPP(Met) combination with 4 Gy X-ray under hypoxic condition (pO₂: 2%) and corresponding cell nuclei stained with DAPI. Scale bar: 100 μ m. (B) Quantification analysis of percentage of EdU-positive cells of EdU assay results in U87MG cells with different treatment. Data are shown as mean \pm SD (n = 3), **P < 0.01.

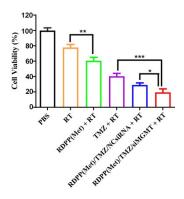


Figure S6. MTT assay of U87MG cells. Data are shown as mean ± SD (n = 3), *P < 0.05, **P < 0.01, ***P < 0.001.