

Supplementary Information

Figure S1. Co-incubation of A2780cis cells with cisplatin and MMP-9/MMP-2i for 6 hours. Simultaneous monitoring of changes in (A) cell density, (B) cell membrane permeability, (C) lysosomal mass/pH, (D) nuclear condensation/intensity and (E) nuclear size following co-incubation of A2780cis cells with cisplatin and MMP-9/MMP-2i for 6 h. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Experiments were carried out in triplicates.

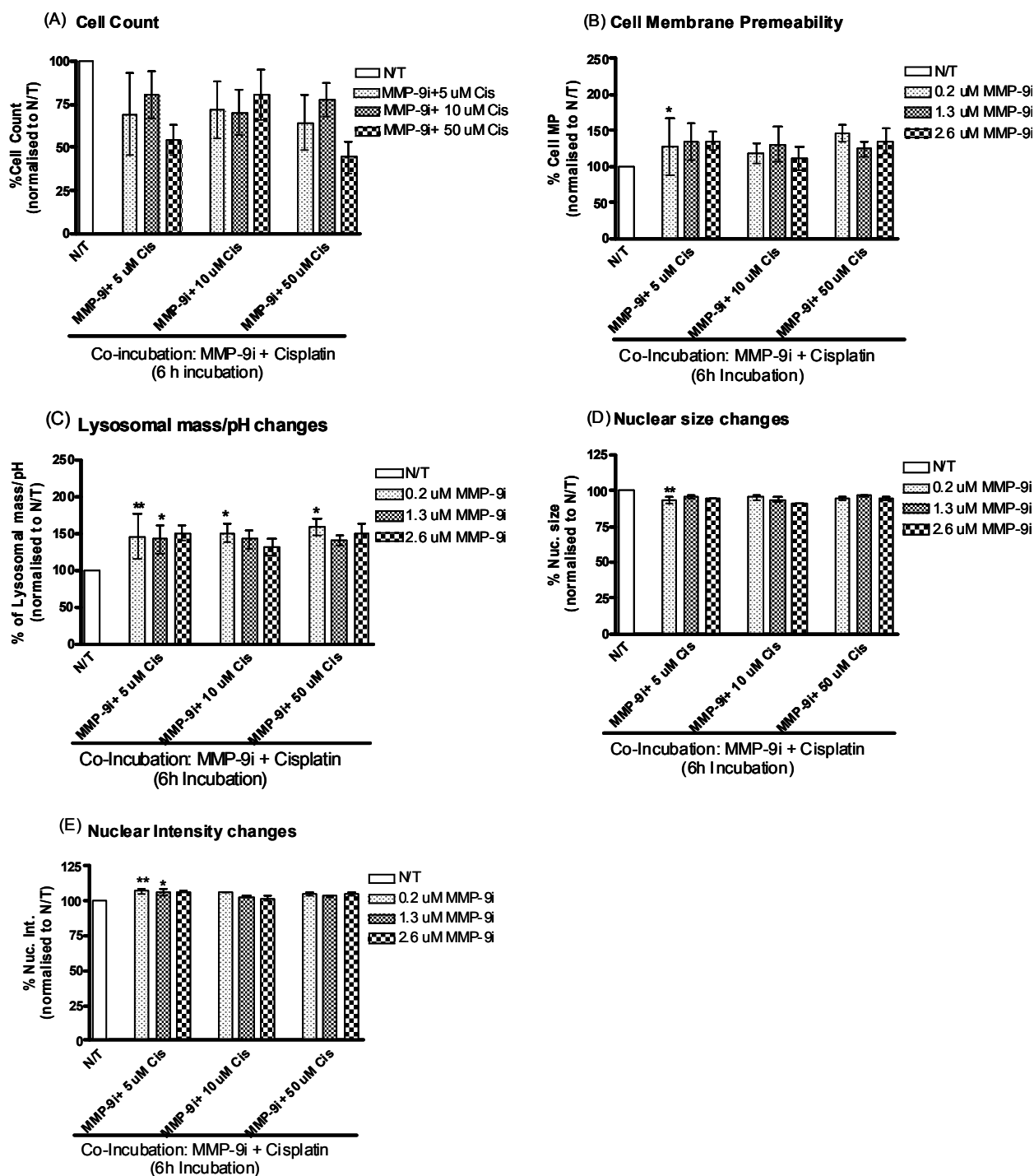


Figure S2. Pre-incubation of A2780cis cells with MMP-9/MMP-2i for 3 h followed by cisplatin for 6 h. Simultaneous monitoring of changes in (A) cell density (B) cell membrane permeability (C) lysosomal mass/pH (D) nuclear condensation/intensity and (E) nuclear size following pre-incubation of A2780cis cells with MMP-9/MMP-2i for 3 h followed by treatment with cisplatin for 6 hs. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), ** $p < 0.01$, *** $p < 0.001$. Experiments were carried out in triplicates.

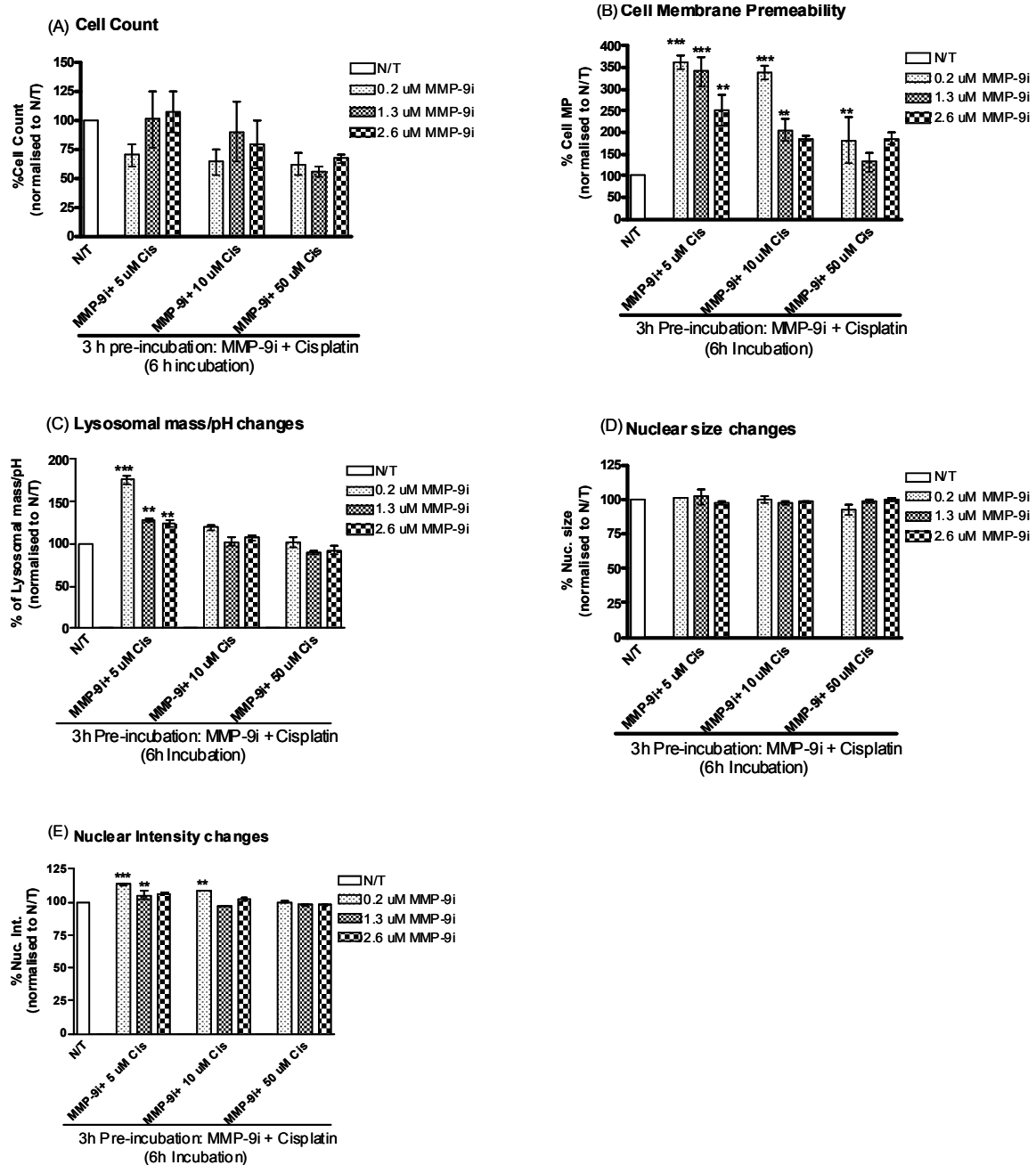


Figure S3. Co-incubation of A2780 cells with cisplatin and MMP-9/MMP-2i. Simultaneous monitoring of changes in (A) cell density (B) cell membrane permeability (C) lysosomal mass/pH (D) nuclear condensation/intensity and (E) nuclear size following co-incubation of A2780 cells with cisplatin and MMP-9/MMP-2i for 3 h. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

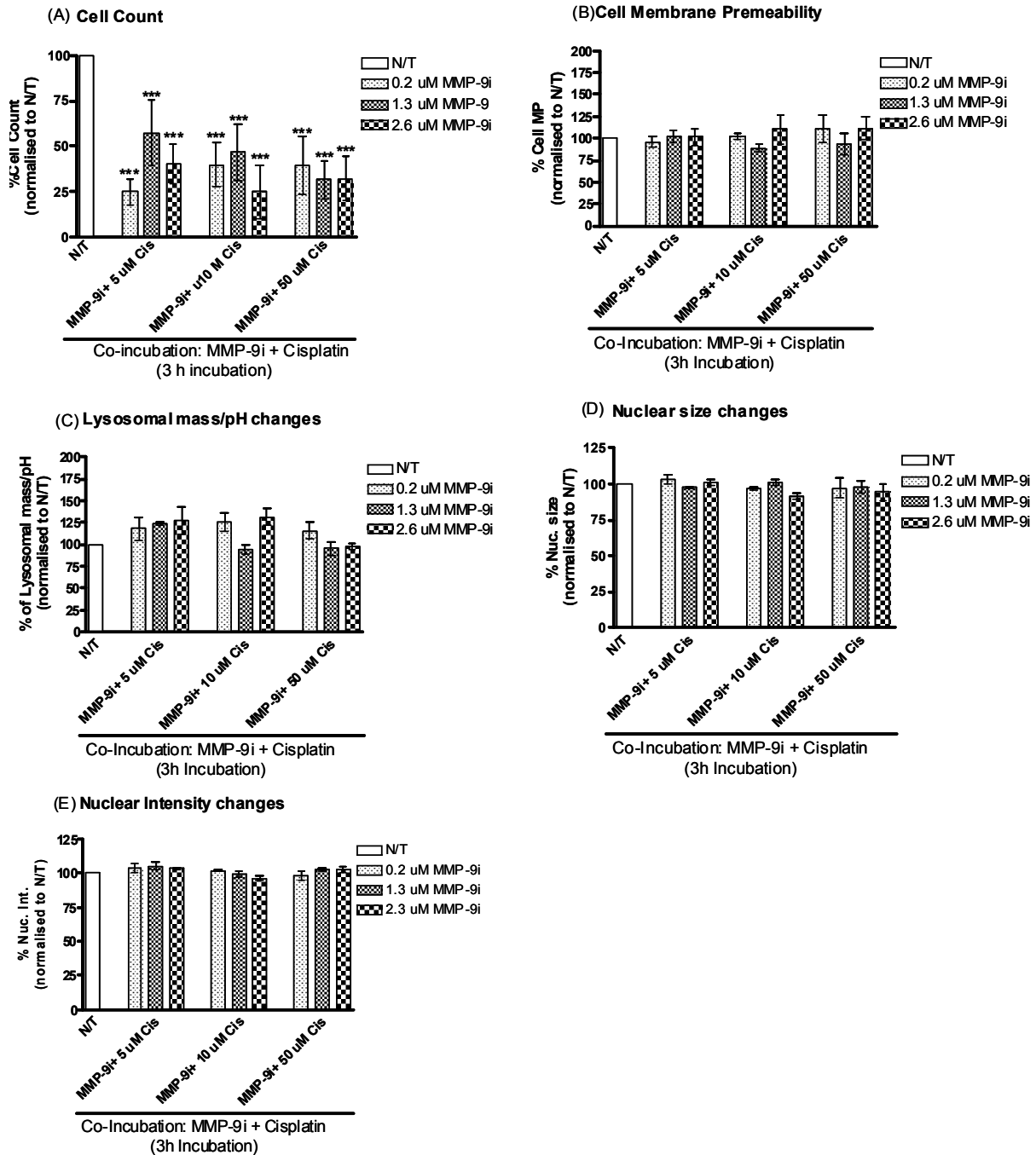


Figure S4. Pre-incubation of A2780 cells with MMP-9/MMP-2i for 3 h followed by cisplatin treatment. Simultaneous monitoring of changes in (A) cell density (B) cell membrane permeability (C) lysosomal mass/pH (D) nuclear condensation/intensity and (E) nuclear size following pre-incubation of A2780 cells with MMP-9/MMP-2i for 3 h followed by treatment with cisplatin for 3 h. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), ** $p < 0.01$, *** $p < 0.001$.

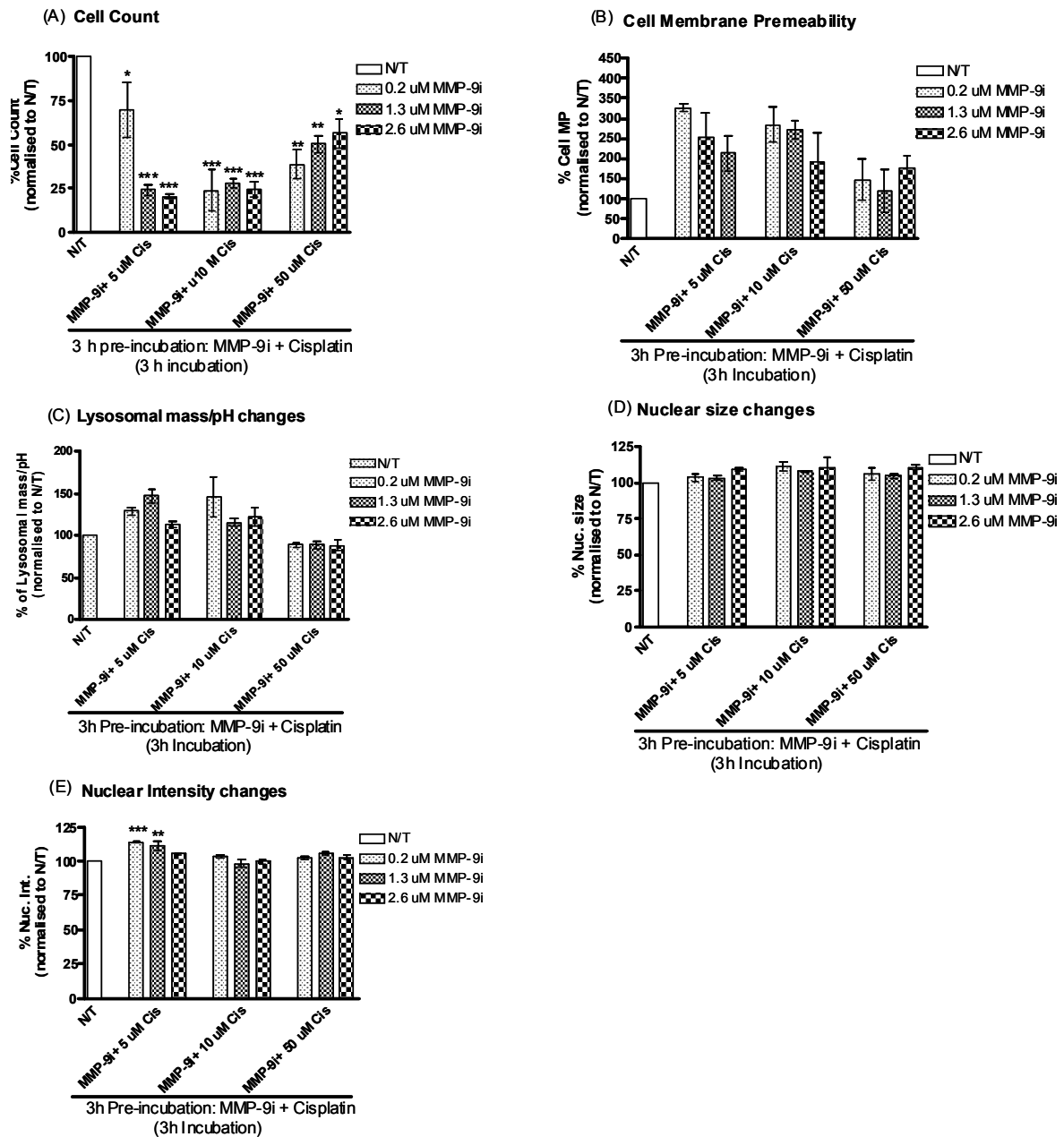


Figure S5. Co-incubation of A2780 cells with cisplatin and MMP-9/MMP-2i for 6 h. Simultaneous monitoring of changes in (A) cell density (B) cell membrane permeability (C) lysosomal mass/pH (D) nuclear condensation/intensity and (E) nuclear size following co-incubation of A2780 cells with cisplatin and MMP-9/MMP-2i for 6 h. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Experiments were carried out in triplicates.

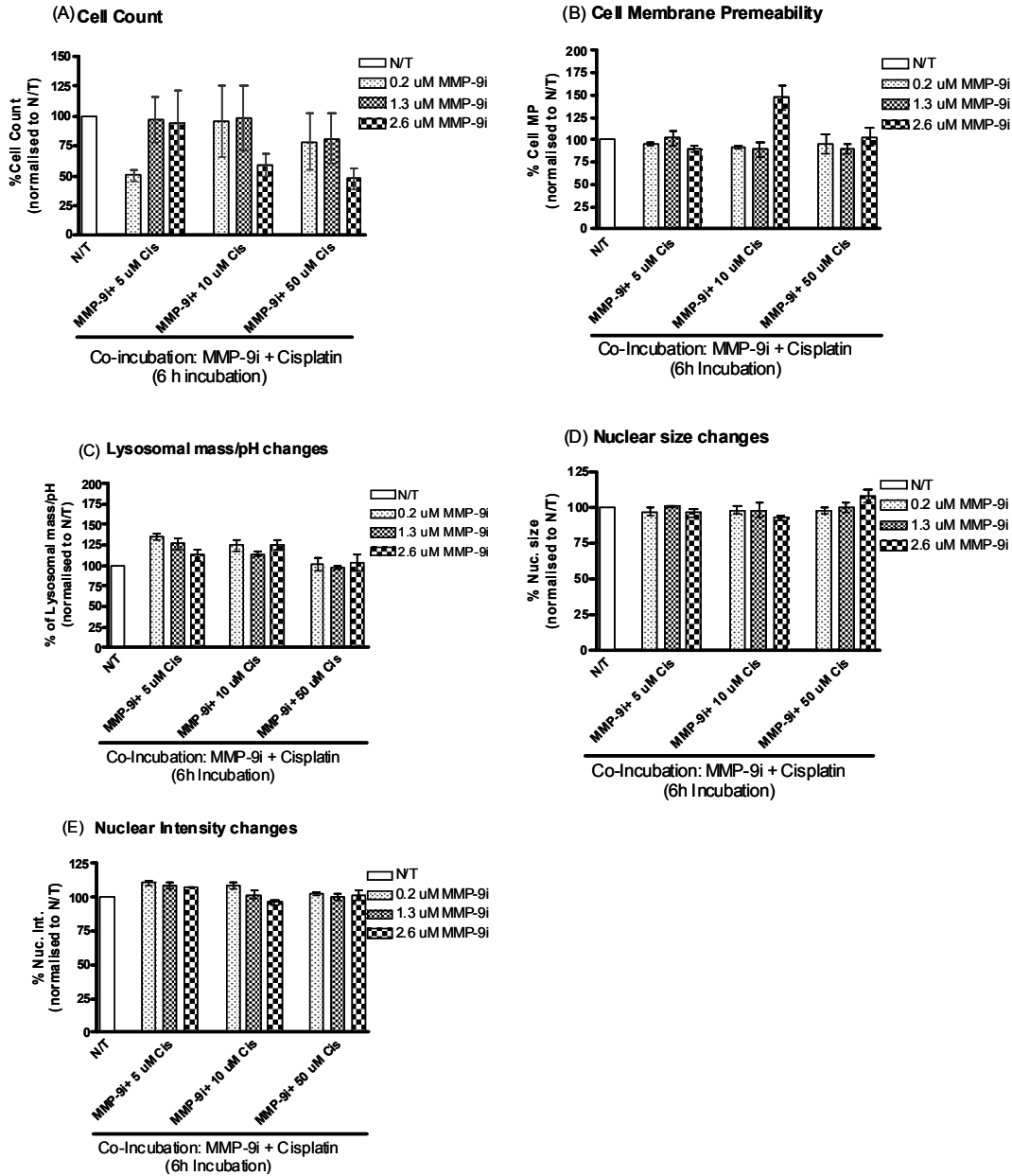


Figure S6. Pre-incubation of A2780 cells with MMP-9/MMP-2i for 3 h followed by cisplatin for 6 h. Simultaneous monitoring of changes in (A) cell density (B) cell membrane permeability (C) lysosomal mass/pH (D) nuclear condensation/intensity and (E) nuclear size following pre-incubation of A2780 cells with MMP-9/MMP-2i for 3 h followed by treatment with cisplatin for 6 h. Values were normalised to vehicle treated wells. Representative data are shown as means \pm SE ($n = 3$), ** $p < 0.01$, *** $p < 0.001$. Experiments were carried out in triplicates.

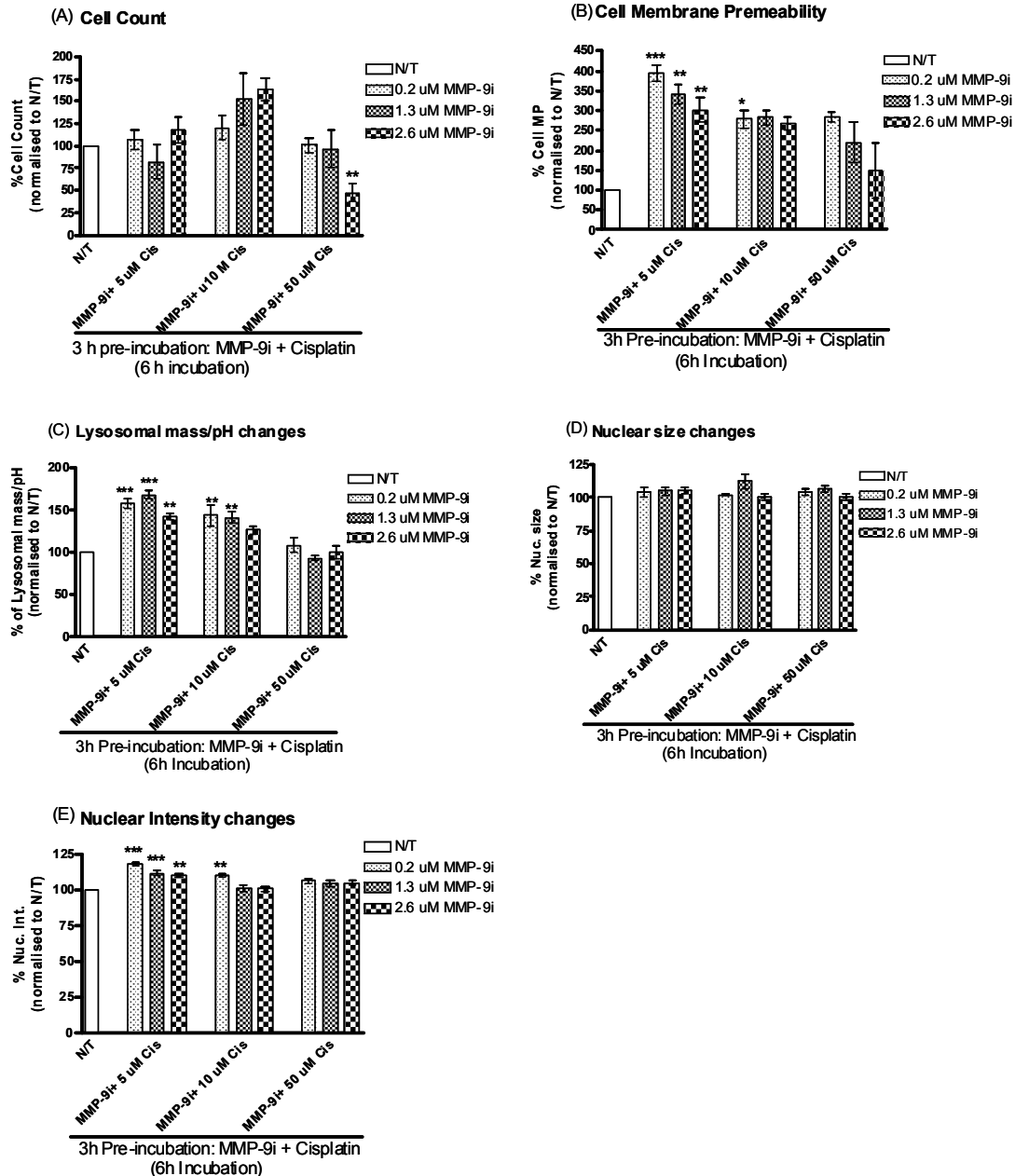


Figure S7. MMP-9 protein expression evaluated by immunohistochemistry in a recurrent serous papillary ovarian adenocarcinoma (20 \times).

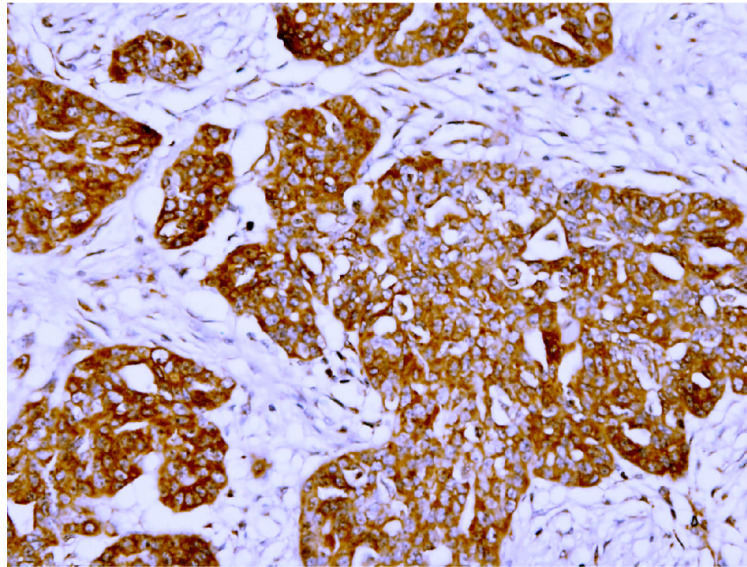
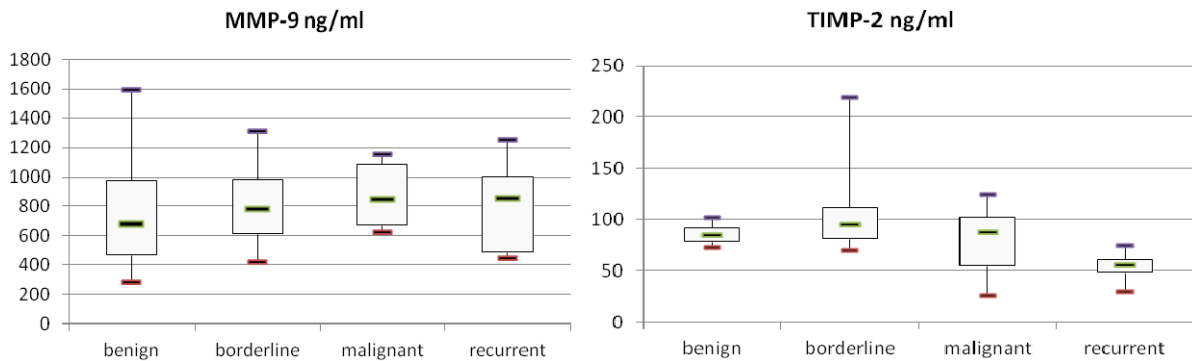


Figure S8. ELISA results of MMP-9 and TIMP-2 concentrations in serum samples. Sample population included serum from benign ovarian cystadenomas, borderline serous ovarian tumours, serous papillary adenocarcinomas of the ovary and recurrent serous papillary adenocarcinomas ($n = 39$).



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