Supplemental Information

For

Combined arsenic trioxide-cisplatin treatment enhances apoptosis in oral squamous cell carcinoma cells

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Supplementary Fig. S2

A

B

C
Supplementary Fig. S3

![Graph showing relative caspase 3/7 activity (%)]
Supplementary Figure legends

Supplementary Figure S1. Effects of ATO/CDDP on expression levels of pro-apoptotic and anti-apoptotic proteins.

HSC-2 cells were incubated with ATO (5 μM), CDDP (5 μM) or ATO/CDDP (5 μM each) for the indicated times. A total of 1 μg of the protein was subjected to western blot analysis to detect XIAP, BAX, CAS, APAF1, phospho-ERK1/2, ERK1/2, phospho-AKT, AKT, and β-actin. To detect BCL2, BCL-xL, and BAD, 5 μg of the protein was subjected to western blot analysis. For mitochondrial cytochrome c analysis, the mitochondrial fractions (20 μg protein/lane) were immunoblotted with the specific antibody. β-actin protein was used as an internal control.

Supplementary Figure S2. Effects of ATO/PEITC or CDDP/PEITC on the induction of apoptosis.

(A) HSC-2 cells were incubated with ATO (5 μM), CDDP (5 μM), PEITC (5 μM), ATO/PEITC (5 μM each), CDDP/PEITC (5 μM each) or ATO/CDDP (5 μM each) for 24 h. Bar graph shows the percentage of apoptosis (Ax+/PI+) cells. Data are expressed as the means ± SE (n = 3). Asterisk (*) indicate statistically significant difference (P < 0.05). (B) HSC-2 cells were treated with graded concentrations of PEITC (0, 0.5, 1 and 5 μM) in the presence of ATO (5 μM) for 24 h. Bar graph shows the percentages of apoptosis (Ax+/PI+) cells (n = 3). (C) HSC-2 cells were treated with graded concentrations of PEITC (0, 0.5, 1 and 5 μM) in the presence of CDDP (5 μM) for 24 h. Bar graph shows the percentages of apoptosis (Ax+/PI+) cells (n = 3).

Supplementary Figure S3. Effect of NAC on caspase-3/7 activity in HSC-3 cells.

HSC-3 cells were incubated as described in the legend of Supplementary Figure S2A. Data are expressed relative to caspase-3/7 activity in control cells, which arbitrarily set at 100%. An asterisk (**) indicates statistically significant difference (P < 0.005). Data are expressed as the means ± SE (n = 3).