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# Anticancer Activity of 2-Substituted-5-Amino-1,4-naphthoquinone Derivatives in Ovarian Cancer Cells

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## Abstract

2-*Amino-1,4-naphthoquinone* derivatives (**10**–**17**) were synthesized from coupling reaction between 1,4-dihydroxynaphthalene and amines in the presence of catalyst  $\text{CeCl}_3 \cdot 7\text{H}_2\text{O}$ . Their anticancer activity was evaluated by using three ovarian cancer cells (A2780, SKOV3, and OVCAR3). Among the eight compounds, compound **13** containing metal chelating moiety had a relatively potent cytotoxic activity ( $\text{IC}_{50} < 10^{-4} \text{ M}$ ) on all three ovarian cancer cells.

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