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Synthesis, structure-activity relationships and preliminary mechanism of action of novel water-soluble 4-quinolone-3-carboxamides as antiproliferative agents

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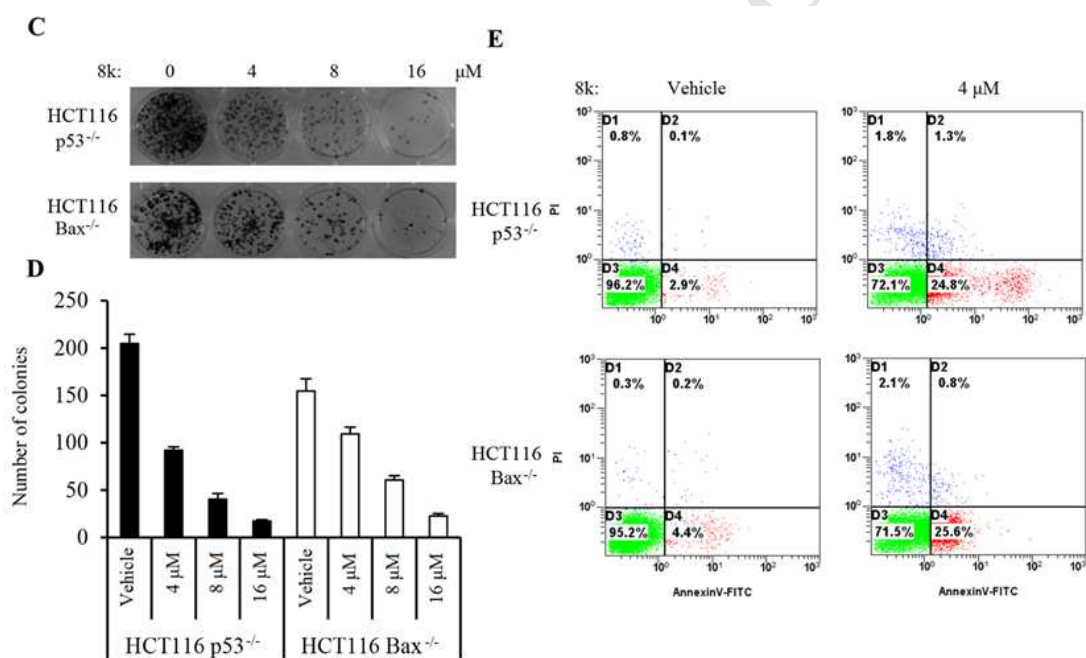
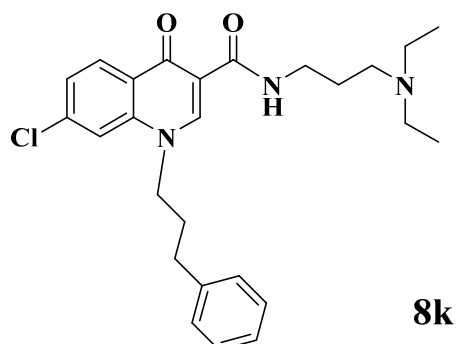
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Graphic abstract



A series of novel water-soluble 4-quinolone-3-carboxamides was prepared and evaluated as antitumor agents. The representative compound **8k** could trigger p53/Bax- independent colorectal cancer cell apoptosis *via* inducing ROS accumulation.

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