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Novel compounds triggers HepG2 apoptotic cell

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The study was performed to investigate the anti-cancer effect of novel compounds in the liver cancer. We performed with many synthetic compounds which are various forms of anti-cancers. We had screened test anti-cancer drugs and selected compatible two compounds. In the study, the anticancer effect and apoptotic molecular mechanism of two compounds were investigated on the human hepatocellular carcinoma cell, HepG2. The anti-proliferation effects of compounds on the HepG2 cell were analyzed using MTS. We showed the expression levels of anti-apoptotic (Bcl-2) proteins and apoptosis-associated proteins (Bax, caspase-3, PARP) using western blot. The results indicated that two compounds effectively inhibit cell proliferation and promote apoptosis and two compounds down-regulated the level of Bcl-2 protein and up-regulated the activity of Bax, cleaved-Parp, cleaved-Casepase-3 proteins. Therefore, two compounds induce apoptosis of hepG2 through the change of the apoptosis-associated proteins.

Biography

Suyun Jeong has completed her Master's degree from Kyunghee University in Seoul, South Korea. Presently, she is studying about viruses and cancer.

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