

Hyperoside Facilitates Gastric Cancer (GC) Cell Apoptosis and Inhibits Viability via NF- κ B/PTEN/JAK2 Pathway

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ABSTRACT This study investigated impacts of hyperoside on viabilities and apoptosis of gastric cancer (GC) cells. CCK-8 and flow cytometry were applied for examining HGC-27 cell viabilities and apoptosis, indicating that hyperoside treatment suppressed cell viabilities but facilitated cell apoptosis. Additionally, RT-qPCR results revealed that mRNA expressions of Bcl-2 in HGC-27 cells were downregulated while Bax and caspase-3 were elevated with hyperoside treatment. Furthermore, ELISA examined changes about protein concentrations of NF- κ B/PTEN/JAK signalling pathway in HGC-27 cells after being treated by hyperoside. Results showed that protein concentrations of phosphorylated NF- κ B/p65 were reduced with hyperoside treatment while PTEN and JAK2 protein concentrations were promoted.