

## Anticancer Activity of *Sageretia theezans* in Human Colorectal Cancer Cells

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In this study, we evaluated the anti-cancer effect of extracts of leaves (ST-L) and branches (ST-B) from *Sageretia theezans* in human colorectal cancer cells. ST-L and ST-B significantly inhibited the proliferation of human colorectal cancer cells, SW480. ST-L and ST-B decreased cyclin D1 protein level through the induction of cyclin D1 proteasomal degradation via GSK3 $\beta$ -dependent threonine-286 phosphorylation of cyclin D1. In addition, ST-L and ST-B increased HO-1 protein through p38, ROS and GSK3 $\beta$ -dependent Nrf2 activation. These findings suggest that ST-L and ST-B may have great potential for the development of anti-cancer drug to treat human colorectal cancer.

Keywords: Anti-cancer; Human colorectal cancer; *Sageretia theezans*

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