Isorhamnetin is a flavonol found in *Tagetes* that exhibits anti-obesity, anti-inflammatory, antioxidative, anticancer chemotherapeutic, and chemopreventive activities. Isorhamnetin decreases levels of PPARγ, CEBPα, LXRα, and lipoprotein lipase in adipocytes. In animal models of edema, isorhamnetin decreases expression of COX-2 and production of ROS and increases expression of Nrf2 and heme oxygenase 1 (HO-1). In colon cancer cells, isorhamnetin inhibits cell proliferation, induces G2/M phase cell cycle arrest, increases expression of cyclin B1, and inhibits signaling of the PI3K/Akt/mTOR pathway. Additionally, this compound decreases tumor development induced by DSS and azoxymethane in vivo by inhibiting activity of Src and β-catenin.

References


