Wogonoside is a flavonoid glycoside found in the Scutellaria plant; it displays anti-inflammatory, anti-angiogenic, and anticancer chemotherapeutic activities. In vitro, wogonoside decreases levels of nitrous oxide (NO) and prostaglandin E2 (PGE2) and inhibits release of pro-inflammatory cytokines TNF-α and IL-6. Wogonoside also increases p21 and decreases c-Myc, ERK1/2, and p38 MAPK expression in vitro, inducing cell cycle arrest and autophagy in a variety of cancer cell lines. Wogonoside inhibits vessel growth and migration in vitro and in vivo, decreasing phosphorylation of JNK, ERK, and p38 MAPK.

References

