【P-26】

The Immunomoulatory Effects of Baicalein and Wogonin on Murine Splenocytes in Vitro

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Baicalein and wogonin are flavonoids derived from the Scutellaria baicalensis which is one of the most popular and multi-purpose herbal medıcines or medıcınal plants used in oriental countrıes. Previous studies reported that flavonoid components extracted from S. baicalensis have a potent antioxidant action ın vivo as well as in vitro. However, little is known about ımmunomodulation of baicalein and wogonin in vitro. To evaluate the immunomodulatory effect of baicalein and wogonin on murine splenocyte ın vitro, we investıgated splenocyte blastogenesis by concanavalin A (Con A), anti-CD3, and lıpopolyssacharide (LPS). There was a significant decrease in lymphocyte blastogenesis to Con A or anti-CD3 at subtoxic dose of baicalem. A sıgnıficant decrease in splenocyte blastogenesis to LPS was also observed ın baıcalein treatment. There was also a significant decrease in lymphocyte blastogenesis to Con A or anti-CD3 at subtoxic dose of wogonın. However, there was no sıgnificant decrease in splenocyte blastogenesis to LPS in wogonin treatment. These results indicate that baicalein and wogonin might be able to modulate immune response of spleen lymphocytes in vitro.

Keyword : Baicalein, wogonin, immunomodulation, splenocytes