in vitro and *in vivo*

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Korean red ginseng is a pharmacological plant that is traditionally used to improve the body's immune functions and ameliorate the symptoms of various diseases. However, the splenocyte activity of Korean red ginseng and its underlying molecular and cellular mechanisms are not fully understood. In this study, , and immune cell activities of Korean red ginseng were explored. Also, Korean red ginseng was assessed for its e cacy to act as an adjuvant for the immune response of splenocytes. e porcines were treated with di erent concentrations of Korean red ginseng, orally for 4 weeks. e splenocytes isolated from Korean red ginseng-treated group showed enhanced immune cell-activities in a dose dependent manner when compared to untreated group. Further, the intracellular levels of perforin and NKp46 were found to be signi cantly increased in

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