مقاله:	ان	عنوا
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Inactivated herpes simplex virus-\ vaccine formulated in aqueous and alcoholic extracts of propolis boosts cellular and IgG responses

محل انتشار:

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خلاصه مقاله:

Objective(s): In this study, the adjuvant activity of aqueous and alcoholic extracts of propolis was examined on the inactivated herpes simplex virus—\(HSV-\). Materials and Methods: BALB/C mice were administered with inactivated (HSV-\); the KOS strain) plus alcoholic and aqueous extracts, followed by assessment of the cellular and humoral immune responses. Results: Alcoholic and aqueous extracts, as an adjuvant, revealed a significant increase in lymphocyte proliferation and cytotoxic T lymphocyte (CTL) responses versus the HSV-\ group. In addition, HSV-\ plus alcoholic extract showed a remarkable increase in IFN-\(\gamma\) cytokine and IFN-\(\gamma\)/IL-\(\famma\) ratio. On the other hand, both alcoholic and aqueous extracts in the HSV-\ vaccine suppressed the IL-\(\famma\) cytokine response as compared with the HSV-\ vaccine. In addition, HSV-\ plus alcoholic extract showed a significant increment in IgG\\, IgG\(\gamma\), and IgG\(\gamma\) isotypes as compared with the HSV-\ vaccine. Conclusion: Propolis extracts seem to modulate the immune response against inactivated HSV-\ model and can be used as a suitable vaccine adjuvant or a component of a complex adjuvant against infectious diseases

كلمات كليدى:

Adjuvant, HSV-1, Propolis, Th1, Vaccine potency

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