

عنوان مقاله:

Effect of Teucrium polium leaf extracts on AMPK level in Isolated Rat Pancreases

محل انتشار:

مجله تحقیق در پزشکی مولکولی، دوره 1، شماره 3 (سال: 1392)

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خلاصه مقاله:

Background: The purpose of this study is to evaluate effects of Teucrium polium (TP) leaf extracts on adenosine monophosphate activated protein kinase (AMPK) level in isolated pancreases. **Materials and Methods:** In this experimental study, two groups of rats were used as a control group, and diabetic group. In the end of experimental period the animals were sacrificed then pancreas were removed, then isolated rat pancreas was cultured in buffer with or without TP leaf extracts. Measuring the sample glucose level was carried out by spectrophotometric method (Jenway, Model ٦٥٠٥, UK, Pars Azmmon Co., Tehran, IRAN). Insulin level was assayed by an enzyme immunoassay ELISA kit specific for rats made by Mercodia Rat insulin ELISA (١٠-١٢٥٠-٠١, Mercodia AB, Uppsala, Sweden). The adenosine monophosphate activated protein kinase level was determined by ELISA assay method using a rat phosphorylated AMPK ELISA kit (CSB-E١١٣٣٧r, Cusabio Biotech Co., LTD). **Results:** The results indicate that addition of TP leaf extract significantly increased AMPK level and insulin content compared to untreated group ($p < 0.05$). **Conclusion:** These results support the potential of TP leaf extract as a therapeutic modality for diabetes. However, further studies will be necessary to confirm this potential.

کلمات کلیدی:

Adenosine monophosphate-activated protein kinase, Teucrium polium, leaf extract, pancreas, rat

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