

Abstract

Diabetes mellitus as one of metabolic sicknesses is accompany with relative or absolute lack of insulin, increasing glucose in blood, and defects in carbohydrate, fat and protein metabolism which can gradually impair body systems. There are a lot of evidences for medical properties of plants such as treatment and control of diabetes and preventing from next side effects. For example *prosopis farcta* is an anti-inflammatory and anti- diabetic. In this research the effect of hydraulic extract of prosopis farcta root on blood glucose and phosphor- fructo- kinas-1 in diabetic mice. Was inves tigated In this way 45 male rats weight 150-300g categorized in to three groups of 15 examples (healthy, diabetic and treated diabetic groups). Induction of diabetes in rats by using 60 mg/ kg streptozotocin was done. Treated diabetic group received 300 mg/ kg hydraulic extract of prosopis farcta for 30 days. Also glucose scale of blood was determined in three phases (0 day before starting induction, day 15 and 30 days induction). Then by using Real time PCR expression of phosphor- furocto- kinas 1 in liver was determined. The results showed that glucose scale in blood in treated diabetic group with extract was decreased in comparison to diabetic group. But it couldn't influence the eupression of phosphor- fructo- kinas1.

Key words: diabetes, *prosopis farcta*, rat, phosphor- fructo- kinas1, Real time PCR



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**Effect of Hydro- alcoholi extract of *prosopis farcta* root
on gene expression of phosphofructokinase-1 in
diabetic rats (type1).**

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