



## Effect of Total Flavones of Buckwheat Flowers and Leaves on Protein Tyrosine Phosphatase 1B Expression in Type 2 Diabetic Rats

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**SUMMARY.** The total flavone content was obtained from flowers and leaf of buckwheat (*Fagopyrum esculentum* Moench) by heating reflux method. The effects of the total flavone extract on the protein tyrosine phosphatase 1B (PTP1B) expression in type 2 diabetic rats were evaluated by immunofluorescence, western blotting and real-time quantitative PCR. The results suggested that the total flavone fraction from buckwheat flowers and leaves can significantly decrease the PTP1B expression in liver.

**KEY WORDS:** Buckwheat flower and leaves, Insulin resistance, Protein tyrosine phosphatase 1B, Total flavones, Type 2 diabetes.

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