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## **The Effect of Intrathecal Injection of Irisin on Pain Threshold and Expression Rate of GABAB Receptors in Peripheral Neuropathic Pain Model**

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### **Highlights:**

- The effect of different dose of Irisin on neuropathic pain is proposed.
- The mechanism indicated single intra thecal injection of irisin( 1 $\mu$ g/kg ) was effective in reduction of pain.
- Chronic irisin administration ( 1 $\mu$ g/kg ) for 14 days does not have an effect on pain reduction
- Chronic irisin administration ( 1 $\mu$ g/kg ) does not have an effect on expression of GABA receptors

### **Abstract**

**Background and aim:** Irisin is a new myokine that is secreted by myocytes during exercise, and plays a role in creating the beneficial effects of exercise on metabolism. Considering the benefits of exercise in reducing pain, this study was

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