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Hydromorphone protects CA1 neurons by activating mTOR pathway

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Running title: Hydromorphone protect hippocampal CA1 neurons from IR injury

Highlights

- Preconditioning with HM increased Latency time,
- Preconditioning with HM decreased apoptosis of hippocampal CA1 neurons
- Preconditioning with HM suppressed IR induced oxidative stress
- HM increased Bcl-2 and p-mTOR expression levels and decreased Bax expression
- Rapa reverses the role of HM in protecting hippocampal CA1 neurons
- HM protect hippocampal CA1 neurons from IR injury via mTOR pathway

Abstract

Hydromorphone has been shown to play protective effect in rat glial cell. However,

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