Accepted Manuscript

Title: Hydromorphone protects CA1 neurons by activating mTOR pathway

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PII: S0304-3940(18)30635-9

DOI: https://doi.org/10.1016/j.neulet.2018.09.029

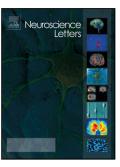
Reference: NSL 33818

To appear in: Neuroscience Letters

Received date: 10-7-2018 Revised date: 14-9-2018 Accepted date: 15-9-2018

Please cite this article as: Xie W, Xie W, Kang Z, Jiang C, Liu N, Hydromorphone protects CA1 neurons by activating mTOR pathway, *Neuroscience Letters* (2018), https://doi.org/10.1016/j.neulet.2018.09.029

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ACCEPTED MANUSCRIPT

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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