

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 71999

Title: Magnesium-L-threonate exhibited a neuroprotective effect against oxidative stress damage in HT22 cells and Alzheimer's disease mouse model

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06110801

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Switzerland

Author's Country/Territory: China

Manuscript submission date: 2021-10-11

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-15 09:43

Reviewer performed review: 2021-10-28 13:18

Review time: 13 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Although the pathological mechanism of Alzheimer's disease is still incompletely elucidated, it was reported that oxidative stress played a vital role in the pathogenic mechanism of this disease. Numerous researches indicated that oxidative stress is a crucial issue and occurs in the neurodegenerative diseases, including Alzheimer's disease, amyotrophic lateral sclerosis and so on. The potential neuroprotective effect of Magnesium-L-threonate against oxidative stress remains to be explored. This study explored the in vivo potential neuroprotective effects of MgT against oxidative stress, A β production and hippocampal neuronal damage in APP/PS1 mouse. The study is very well displayed. The methods, include the experimental materials are described in detail. Apoptosis detection methods are reasonable. The results are very interesting. Some minor comments: 1. The images are informative; however, the images are not in a high-resolution ratio. The authors should provide the images accordingly. 2. How about the limit of the study? Please make a short description about it. 3. A minor editing is required for the manuscript.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06110869

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: China

Manuscript submission date: 2021-10-11

Reviewer chosen by: AI Technique

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Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Thank you very much for invite me to review this interesting study of Magnesium-L-threonate and Alzheimer's disease. The authors present a wonderful study. The reviewer recommends to accept this study for publication after a minor editing. Congratulations!