Reviewer's report

Title: Kihi-to, a herbal traditional medicine, improves Abeta(25-35)-induced memory impairment and losses of neurites and synapses

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Reviewer: Chandishwar Nath

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Comments:
The manuscript deals with protective effect of Kihi-to, a herbal traditional medicine against A\# (25-35) induced memory deficit and neuronal damage. There are following suggestions that may improve the approach of authors to evaluate Kihi-to as memory enhancer:

Major Compulsory Revisions

1. Dose selection of Kihi-to: What was the reason to use only single dose (100 mg/kg) of Kihi-to? A dose response study would have been a better option.
2. Why tap water was used as a vehicle? Kihi-to was dissolved in water which one –distilled or tap water. Preference of vehicle needs explanation.
3. The volume of icv injections of A\# should be given.
4. Sham group for icv injections is not in the study. It should have been in the study.
5. Per se effect of Kihi-to on morris water maze should have been also studied.

Discretionary Revisions

1. Preventive potential of a traditional medicine is a very important aspect but it has been ignored in the study. The authors have evaluated Kihi-to only for its curative potential by post treatment against A\# (25-35) induced memory deficit and neuronal damage. Effect of pretreatment of Kihi-to should also be done.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

'I declare that I have no competing interests'