

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 35258

Title: Effect of Hemp seed soft capsule on colonic ion transport in rats

Reviewer's code: 01427317

Reviewer's country: United States

Science editor: Yuan Qi

Date sent for review: 2017-07-20

Date reviewed: 2017-08-02

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
| <input checked="" type="checkbox"/> Grade C: Good | <input checked="" type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Duplicate publication | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade D: Rejected | <input type="checkbox"/> Plagiarism | <input type="checkbox"/> Minor revision |
| <input type="checkbox"/> Grade E: Poor | | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Major revision |
| | | BPG Search: | |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input checked="" type="checkbox"/> No | |

COMMENTS TO AUTHORS

The authors studied the effect of Hemp seed soft capsule (HSSC) on constipation model and short-circuit current in rat colon. Although data are clearly shown, the mechanism is still unclear. Some issues should be clarified to improve the manuscript. 1. Preparation of HSSC is unclear. HSSC was water soluble and diluted into aqueous solution, or insoluble and suspension was made? What concentration of HSSC was made for stock solution? Please clarify this in Method. 2. HSSC addition in Ussing chamber experiments was unclear. HSSC was added into the luminal bath or serosal? If HSSC in the one side increased *I*_{sc}, how about HSSC in the other side? This is important, because the effective side (luminal or serosal) may demonstrate which side has signaling cascade in response to HSSC. For instance, only the serosal HSSC increased *I*_{sc}, suggesting that HSSC or its ingredient works after its absorption. Please clarify this important issue. 3. The representative *I*_{sc} trace showing at least that HSSC increased *I*_{sc} in time course should be demonstrated. 4. Which ingredient causes acute response in *I*_{sc}? Although it is



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difficult to determine the effective ingredient(s) in HSSC in chronic treatment (7 days), Isc response should be acutely induced by certain receptor or transporter activation. Involvement of Cl⁻ channel, NKCC1, and NBC or anion exchanger cannot specify the signaling. Since submucosal plexus remains in the tissue of mucosa-submucosa preparations, the effect of TTX, atropine, or hexamethonium should be examined to rule out the neural pathway. Minor 1. Method 6; $R = U/I$ should be $R = V/I$. 2. Method 7, Results 4; What is the cAMP-independent Cl⁻ channel or Ca²⁺-independent Cl⁻ channel? These should be cAMP-dependent and Ca²⁺-dependent, such as CFTR and CaCC. Please correct.

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

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Title: Effect of Hemp seed soft capsule on colonic ion transport in rats

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| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|--|---|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input checked="" type="checkbox"/> [Y] Accept |
| <input checked="" type="checkbox"/> [Y] Grade B: Very good | <input checked="" type="checkbox"/> [Y] Grade B: Minor language polishing | <input type="checkbox"/> [] The same title | <input type="checkbox"/> [] High priority for publication |
| <input type="checkbox"/> [] Grade C: Good | <input type="checkbox"/> [] Grade C: A great deal of language polishing | <input type="checkbox"/> [] Duplicate publication | <input type="checkbox"/> [] Rejection |
| <input type="checkbox"/> [] Grade D: Fair | <input type="checkbox"/> [] Grade D: Rejected | <input checked="" type="checkbox"/> [Y] No | <input type="checkbox"/> [] Minor revision |
| <input type="checkbox"/> [] Grade E: Poor | | BPG Search: | <input type="checkbox"/> [] Major revision |
| | | <input type="checkbox"/> [] The same title | |
| | | <input type="checkbox"/> [] Duplicate publication | |
| | | <input type="checkbox"/> [] Plagiarism | |
| | | <input checked="" type="checkbox"/> [Y] No | |

COMMENTS TO AUTHORS

In this study, the authors investigate the effect of Hemp seed soft capsule on colonic ion transport in constipation rats and its related mechanism. The research is interesting and the novelty is good. Few issues have to be addressed before the paper can be considered for publication: 1. Why one dosage of HSSC was used in the HSSC group? 2. The discussion paragraphs should be modified, they are not clear to explain the results.