Reviewer’s report

Title: Gastrodia elata Blume alleviates L-DOPA-induced dyskinesia by normalizing FosB and ERK activation in a 6-OHDA-lesioned Parkinson’s disease mouse model

Version: 1, Date: 28 December 2013

Reviewer: Seung-Tae Kim

Reviewer’s report:

Major compulsory revision

1. Materials and methods. High Performance Liquid Chromatography (HPLC) analysis of drug. Experimental procedure of HPLC analysis is not clearly described. The manufacturer of HPLC system and the type of detector used in this study were not described, and "solvent B" is inappropriate description and should be replaced with the exact solvent such as water and methanol. Percentage of mobile phase in this study is an ambiguous term. If it meant volume concentration, authors should describe clearly such as “% (v/v)”.

Discretionary Revisions

1. The administration of 800 mg/kg GEB extract showed remarkable alleviation of LID in this study. but this dosage may be too excessive for clinical application because a LID patient weighting 60 kg should have 48g GEB extract daily for suppressing LID based on the results.

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.