Reviewer's report

Title: Tuscan black kale sprout extract bioactivated with myrosinase: a novel natural product for neuroprotection by inflammatory and oxidative response during cerebral ischemia/reperfusion injury in rat

Version: 2 Date: 4 September 2015

Reviewer: RAMANATHAN MUTHIAH

Reviewer's report:

1. The figures are to be self explanatory. The different lanes of the gel have to be given in the figures so that the readers can understand the experiments.

2. The discussion part is lengthy, it has to be reduced.

3. The authors have not measured directly the inflammatory markers rather they have measured the proteins responsible for it. In biological system it may not be a true indicator.

4. The authors have occluded the carotid artery for 1 hr duration to induce ischemia, is it one artery or both the arteries which carotid artery (Common, right, left or both)? Induction of ischemia for 1 hr is quite long! What is the mortality rate?

4. Experimental evidence already had shown in ischemic state disturbed BBB, hence assessing the BBB with bio active compound and its restoration is due to neuroprotective effect or it acts like a growth factor?

Level of interest: An article of limited interest

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests