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Comparative study on the effects of two derivative of cucurbitacin B and I on antioxidant status in liver cancer cells line Huh-7

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Cucurbitacin B (CuB) and Cucurbitacin I (CuI), has recently emerged as a potent anticancer agent; however, all aspects or its biological mechanism effects are still obscure in which antioxidant indexes may be involved. Thus, our objective was to determine the involvement or antioxidant parameters and Paraoxonase activity in Huh-7 cell lines in responses to two Cucurbitacin derivatives. In this study,

Huh-7 cells were treated with two derivatives of CuB and CuI in order to measure the cell viability by the MTT method. Malondialdehyde level (MDA), Catalase (CAT), Superoxide dismutase (SOD), Glutathione peroxidase (GPx) and Paraoxonase (PON1) activities were evaluated by spectrophotometer and HPLC in cell extract after 24 h treatment.

Biography

Gilda Karimi is working as an assistant professor of molecular and cellular biochemistry in Department of Biological Sciences, Kharazmi University, Iran. She has completed her Ph.D. in Molecular Biochemistry, Faculty of sciences from University of Paris-Sud, France in 2010-2014. She has published many papers in reputed journals.

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