

Abstract

The Antiproliferative Effect of Alpha Tocopherol in F98 Cell Culture †

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Abstract: Alpha tocopherol is the most common and biologically active form of Vitamin E. The aim of this study was to evaluate the possible antiproliferative effect of alpha tocopherol on F-98 Glioblastoma cells. F-98 glioblastoma cell line was seeded at a density of 50.000/mL per well in 96 well plates in 100 µL medium DMEM. Cells treated with Alpha tocopherol (200,100, 50, 25, 12.5, 6.2, 3.3 µM) for 24 h, 48 h and 72 h incubation. Measurement of Alpha tocopherol treated and control groups' cell proliferation performed with MTT assay and Wound Healing assay was employed to show migration capacity. MTT Assay data shown are there was significant change in cell viability in 24 h, 48 h and 72 h. However significant decrease was observed at 50, 100 and 200 µM. In the present study, antiproliferative effect of alpha tocopherol was observed via wound healing assay. Our results here show that Alpha Tocopherol maybe a possible avenue for brain cancer treatment.

Keywords: F98; Cancer; Wound Healing; Alpha Tocopherol



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