



Abstract Antiproliferative Effect of Methanolic Extract of Linum arboreum on A549 Cells ⁺

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- + Presented at the 2nd International Conference on Natural Products for Cancer Prevention and Therapy, Kayseri, Turkey, 8–11 November, 2017.

Published: 14 November 2017

Abstract: Many anticancer drugs in clinical use are natural product derived from natural sources. Today, investigations of anti cancer effect of different natural products are increase. The aimed of the current study was to investigate possible antiproliferative effects of methanolic extract of Linum arboreum leaves (MELAL) and fruits (MELAF). Linumarboreum is a plant species that member of Linacea efamily. We evaluated the antiproliferative effect of MELAL and MELAF on human lung carcinomacells A549 by XTT assay. Cells exposed different concentration of MELAL and MELAF (0.1–2000 µg/mL) for 24 h. IC50 value was determined 0.771 ± 0.043 µg/mL of MELAL and IC50 value was determined 1.456 ± 0.995 µg/mL of MELAF. MELAL has shown higher antiproliferative activity with low IC50 values in compared cisplatin. Especially MELAL has shown strong anticancer activity with low IC50 value. Nevertheless, anti cancer activity of MELAL should be supported by further studies.

Keywords: Linumarboreum; XTT; A549



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