

BIOLOGICAL ACTIVITIES AND CORRELATIONS TENDENCY OF ELECTROCHEMICAL PROPERTIES OF SOME INDOLIZINO(1,2-B)QUINOLINE DERIVATIVES

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Abstract

We report the preparation of a series of indolylquinone and pyridine derivatives in order to evaluate structure-activity relationships in human gastric (AGS), lung (SK-MES-1), bladder (J82) cancer cell lines and human normal lung fibroblasts (MCR-5). Two correlations tendency between half-wave redox potentials against their antineoplastic activity were found making it possible to establish that for epithelial human gastric cancer (AGS) cell lines and human normal lung fibroblasts (MCR-5). The quinone bio-reduction should correspond to a one electron process under normomix conditions, whilst for all other lines this process should correspond to a two electron attachment via a hypoxic process..

Keywords

Quinone, Electrochemical properties, Antiproliferative activity.