Med Chem (Los Angeles) 2017, 7:11 (Suppl)
DOI: 10.4172/2161-0444-C1-037

Aryl sulphonamide based indolo-quinazolinones as potential anticancer agent: Rational drug design studies

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The persuit of better anticancer drugs and the significance of indoles and quinazolines as anticancer pharmacophore, prompted us to perform the synthesis of some novel quinazolines for their anticancer activity. A series of novel indolo[2,1-*b*]-quinazolinone derivatives fused with aryl sulphonamide nucleus were synthesized for their anticancer activity. The chemical structures of the compounds were elucidated by spectral (IR, ^{1}H-NMR and MS) analysis. The anticancer activities of the compounds were investigated using MCF-7 (Breast) and A-549 (Lung) cell lines. The promising results were observed and efforts were also made to accomplish structure-activity relationships among synthesized compounds. A novel series of indolo-quinazoline possessing benzene sulphonamides were synthesized for their potential anticancer activity. These results indicate that these compounds may constitute a new class of anticancer agents.

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