

# Design, Synthesis and Anticancer Evaluation of Novel Furan Sulphonamide Derivatives

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**Abstract**—A series of novel furan sulphonamide derivatives **13a–13j** was synthesized. The structures of the compounds are confirmed by <sup>1</sup>H and <sup>13</sup>C NMR, and mass spectra. All newly synthesized compounds were evaluated for their anticancer activity against three human cancer cell lines, including breast cancer cell (MCF-7), lung cancer cell (A549) and melanoma cancer cell (A-375). The compounds **13a–13c**, **13e**, **13g–13j** demonstrated the activity higher than the positive control.

**Keywords:** combretastatin-A4, E-7010, HMN-214, anticancer activity

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