GENERAL REMARKS

1) Melting points were recorded by open capillary method and are uncorrected.

2) Infrared spectra were recorded on SHIMADZU FTIR-8400 (Diffuse reflectance attachment) in the frequency range of 4000-400 cm⁻¹ using KBr. Spectra were calibrated against the polystyrene absorption at 1610 cm⁻¹.

3) ¹H NMR spectra were recorded on BRUKER AVANCE II 400 spectrometer. Making a solution of samples in DMSO solvent using tetramethylsilane (TMS) as the internal standard unless otherwise mentioned, and are given in the δ scale.

4) Mass spectra were recorded on SHIMADZU GCMS-QP2010 spectrometer operating at 70 eV using direct injection probe technique.

5) Analytical thin layer chromatography (TLC) was performed on Merck precoated silica gel-G F254 aluminium plates. Visualization of the spots on TLC plates was achieved either by exposure to iodine vapor or UV light.

6) The chemicals used for the synthesis of products were purchased from Spectrochem, Merck, Rankem, SD fine chemicals and Finar.

7) The structures and names of all the compounds given in the experimental section were generated using Chemdraw Ultra-12.0 version.

8) Antimicrobial screening of all compounds was carried out by WADI (Worldwide Antibiotic Discovery Initiative), University of Queensland, Brisbane, Australia.

9) Anticancer activity of selected compounds was carried out by DTP (Development Therapeutic Programme NCI/NIH), USA.