INSTRUMENTATION AND METHODOLOGY

Infrared Spectra

IR spectra were recorded on JASCO FT/IR-300 E spectrometer using KBr pellets. Wave numbers are expressed in cm⁻¹.

NMR Spectra

¹H NMR spectra were recorded on a Bruker supercon FT NMR (300 and 400 MHz) spectrometer using CDCl₃ and DMSO as solvents, TMS as an internal standard and the chemical shifts are expressed in δ.

Mass spectra

Mass spectra was recorded on a JEOL SX 102/DA-6000 (10 kV) FAB mass spectrometer.

Elemental analysis

The C H N elemental analysis was obtained by “Elementar vario EL-III instrument”.

Fluorescent properties

Fluorescent properties of newly synthesized benzocoumaryl compounds were recorded on F-7000 FL (SL. NO 1911-004, ROM 5J14000 03) spectrophotometer.

Biological activity

DNA Binding studies, Antioxidant, and Antibacterial activities of all the synthetic compounds were carried out according to standard method.