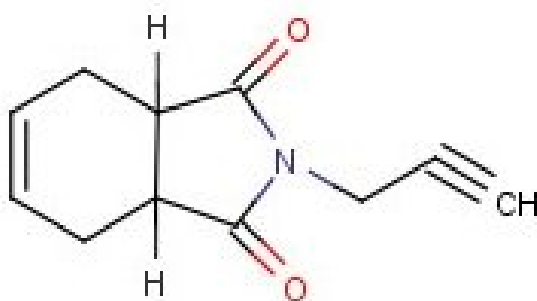


Chapter Three

Results

AM: 2-(prop-2-yn-1-yl)-2,3,3a,4,7,7a-hexahydro-1H-isoindole-1,3-dione



$^1\text{H-NMR}$ (DMSO- d_6): δ , 3.15(s, 1H), 4.05(s, 1H, $\text{CH}_2\text{-C}$), 5.90 (s, 2H, $\text{CH}=\text{CH}$), (Fig 3.1).

IR: 3300, (acetylenic C-H stretch), 2150, (C, C triple bond stretch), 1700, ($\text{C}=\text{O}$ stretch), 1600, (Ar $\text{C}=\text{C}$ stretch), 1200, (N-C stretch), (Fig 3.2).

Elemental analysis ($\text{C}_{11}\text{H}_{11}\text{N}_1\text{O}_2$): Calc: C (69.83%), H (5.86%), N (7.4%).

Found: C (66.2%), H (5.8%), N (8.3%).