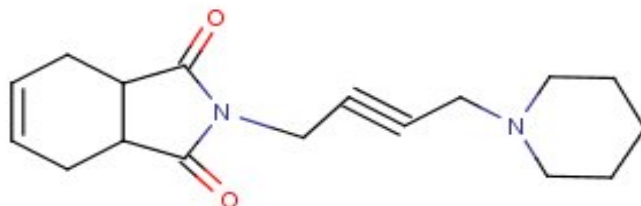


AM-4: 2-[4-(piperidin-1-yl)but-2-yn-1-yl]-2,3,3a,4,7,7a-hexahydro-1H-isoindole-1,3-dione



The titled compound was prepared following the general procedure for synthesis of aminoacetylenic compounds 1-6.

**Yielded** 2.7g 94.4%.

**<sup>1</sup>H-NMR (DMSO- d<sub>6</sub>):**  $\delta$ , 1.92, 2.14 (m, 4H, protons of cyclic amine), 4.05 (s, 1H, CH<sub>2</sub>-C), 5.64 (s, 2H, CH=CH),(Fig 3.10).

**IR Spectra:** 2938 (C-H stretch), 2843 (C-H stretch), 1690 (C=O stretch), 1250 (N-C stretch), 875 (C-H bend), (Fig 3.11).

Elemental analysis (C<sub>17</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>):Calc.: C (71.3%), H (7.74%), N (9.78%).

Found: C (68.6%), H (6.07%), N (8.07%).