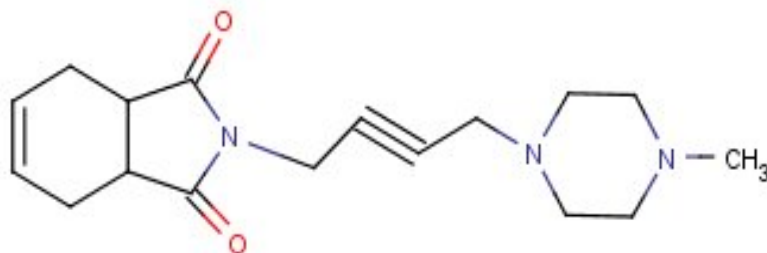


AM-5: 2-[4-(4-methylpiperazin-1-yl)but-2-yn-1-yl]-2,3,3a,4,7,7a-hexahydro-1H-isoindole-1,3-dione



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

**Yielded** 2.9g 96.34%.

**<sup>1</sup>H-NMR (DMSO- d<sub>6</sub>):**  $\delta$ , 2.12- 2.5 (m, 9H protons of cyclic amine), 3.6-4.12 (s, 4h, C-CH<sub>2</sub>-N), 3.63 (s, 1H, CH<sub>2</sub>-C), 5.88 (s, 2H, CH=CH), (Fig 3.13).

**IR Spectra:** 2947 (C-H stretch), 2832 (C-H stretch), 1707 (C=O stretch), (Fig 3.14).