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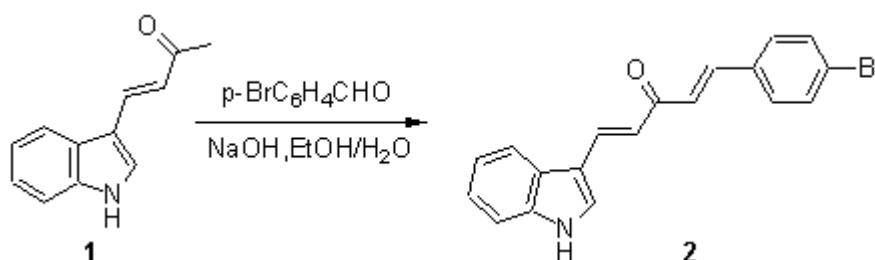
***E,E*-1-(4-Bromophenyl)-5-(3-indolyl)-1,4-pentadien-3-one**

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3-(1-Butenone-3)indole **1** was prepared by previously published method [1]. The solution of **1** (93mg, 0.5mmol), p-bromobenzaldehyde (93mg, 0.5mmol), sodium hydroxide (100mg) in a mixture of ethanol (2ml) and water (2ml) was stirred at room temperature for 24 hours. The precipitate was then filtered and washed with water for several times. The crude product was purified by recrystallisation from acetone to give a yellow powder of *E,E*-1-(4-bromophenyl)-5-(3-indolyl)-1,4-pentadien-3-one (106mg, 60%).

Mp: 259-260°C.

IR (KBr, cm⁻¹): 3174.6 (N-H), 1643.2 (C=O), 1612.4 (C=C), 1569.9, 1515.9, 1488.9, 1434.9, 1346.2, 1195.8, 1130.2, 964.3, 848.6, 744.5.

UV-Vis (nm): 215.5, 311.5, 465.0.

¹H NMR (400 MHz, DMSO-d₆): 7.14 (d, J=16Hz, 1H, 4-H); 7.19-7.27 (m, 2H, 5'-H, 6'-H); 7.47 (d, J=16Hz, 1H, 2-H); 7.47-7.52 (m, 1H, 7'-H); 7.63 (d, J=16Hz, 1H, 5-H), 7.66 (d, J=8.4Hz, 2H, 3''-H, 5''-H); 7.76 (d, J=8.4Hz, 2H, 2''-H, 6''-H); 8.05 (d, J=16Hz, 1H, 1-H); 8.02 (d, J=2.8Hz, 1H, 2'-H); 8.05-8.09 (m, 1H, 4'-H), 11.88 (s, 1H, 1'-H).

MS m/z: 352 (M⁺).

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References

1. Xie, J.; Xie, L.; Gu, Z.; Liu, Y.; Wang, Z. *Acta Pharmaceutica Sinica* **1994**, *23*, 732- 736.

Sample availability: not available.

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