**No: 1**

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| **Name of Compound**  |
| **(*S*)-1-(4-methoxybenzyl)-3-methyl-3-(2-(phenylsulfonyl)ethyl)indolin-2-one (4a)** |
| **Ref:** | *Angew. Chem. Int. Ed.* **2015**, *54*, 9390-9393. |
| **Prep: xxx** |
| **Yield%** | 99% | **Appearance**  | Colorless oil |
| **Structure / Reaction**  | **Formula** |
|  | C25H25NO4S |
| **1H NMR** (400 MHz, CDCl3) δ 7.86 – 7.74 (m, 2H), 7.71 – 7.59 (m, 1H), 7.55 (t, *J* = 7.7 Hz, 2H), 7.22 – 7.12 (m, 3H), 7.09 (dd, *J* = 7.3, 0.8 Hz, 1H), 7.02 (td, *J* = 7.5, 0.8 Hz, 1H), 6.85 – 6.69 (m, 3H), 4.89 – 4.64 (m, 2H), 3.76 (s, 3H), 2.81 (dtd, *J* = 17.2, 13.6, 4.2 Hz, 2H), 2.21 (dtd, *J* = 16.7, 13.1, 4.3 Hz, 2H), 1.38 (s, 3H); | **13C NMR** (100 MHz, CDCl3) δ 178.90, 159.11, 142.01, 138.69, 133.75, 132.07, 129.29, 128.59, 128.40, 127.96, 127.77, 123.01, 122.58, 114.19, 109.36, 55.21, 51.61, 46.67, 43.15, 30.61, 23.45; |
| **HPLC/GC analysis**: Chiralcel AD-H (Hex/IPA = 90/10, 1.0 mL/min, 254 nm, 22°C), 52.9 (major), 58.1 min, 95% *ee*. |
| **Specific optical rotation:**$ [a]\_{D}^{22}$= –9.9 (*c* 2.65, CHCl3); |
| **MS** | ESI  | **M.p.: xxx** |
| **LRMS** | [M+H]+ *m/z* (%) xxx | **IR**/cm-1 |
| 2330,1705,1612,1495, 1450,1303, 1249,1149, 965 |
| **HRMS** | 436.1586 | **Other NMR tech**  |
| **Cal.** | [C25H25NO4S +H+] *m/z*436.1583 | **COSEY** |
| **HMQC** |
| **NOESY** |

**注明：红色部分为举例说明，请按照实际情况自行修改。**