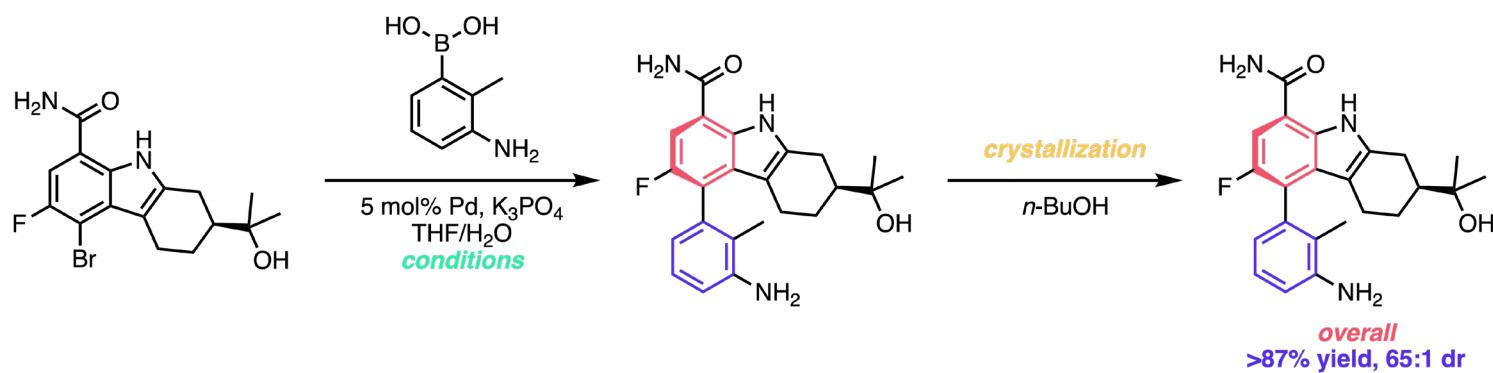


Atropselective Cross-Coupling in the Kilo-Scale Synthesis of BMS-986142



| Entry | Conditions | Yield (%) | Dr |
|-------|--|-----------|-------|
| 1 | PdCl ₂ (dppf), 65 °C | 92 | 1.4:1 |
| 2 | Pd(OAc) ₂ /(<i>R</i>)-Et-DuPhos, 65 °C | 9 | 3.2:1 |
| 3 | Pd(OAc) ₂ /(<i>R</i>)-Et-Ferrotane, 65 °C | 42 | 2.5:1 |
| 4 | Pd(OAc) ₂ /(<i>S</i>)-Xyl-SDP, 65 °C | 52 | 5.4:1 |
| 5 | Pd(OAc) ₂ /(<i>S</i>)-Ph-SDP, 65 °C | 93 | 3.8:1 |
| 6 | Pd(OAc) ₂ /(<i>R</i>)-BINAP, 65 °C | 92 | 2.0:1 |
| 7 | Pd(OAc) ₂ /(<i>R</i>)-BINAP, 5 °C, MeOH | 87 | 16:1 |