Palladium-catalyzed oxidative C–H/C–H cross-coupling of imidazopyridines with azoles

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1 General procedure for antiproliferative activity assays

Exponentially growing cells were seeded into 96-well plates at a concentration of 5×10^3 cells per well. After 24 h incubation at 37 °C, the culture medium was removed and replaced with fresh medium containing the candidate compounds in different concentrations. The cells were incubated for another 72 h. Afterward, 20 µL of MTT solution (5 mg/mL) was added to all wells and incubated for 4 h at 37 °C. Discarded the suspension and added 150 µL of dimethyl sulfoxide (DMSO) to each well and shook the plates to dissolve the dark blue crystals (formazan); the absorbance was measured using a microplate reader at a wavelength of 562 nm. Each concentration was analyzed in triplicate and the experiment was repeated three times. The average 50% inhibitory concentration (IC₅₀) was determined from the dose-response curves according to the inhibition ratio for each concentration.

2 Copies of ¹H and ¹³C NMR Spectra





















































































































