Supplementary Information

Efficient synthesis of isoquinolines and pyridines via copper(I)-catalyzed multi-component reaction

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$^1$H NMR and $^{13}$C NMR Spectra of compounds 2a-y
MTT ASSAY PROTOCOL

Cellular viability in the presence of test compounds was determined by MTT-micro cultured tetrazolium assay. The cells seeded to flat bottomed 96 (1000 cells/100 µl) well plates & cultured in the medium containing 10% serum and allowed to attach and recover for 24 hours in a hid chamber containing 5% CO₂ MTT (3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide; Sigma catalog No M2128) was dissolved in PBS at 5 mg/mL and filtered to sterilize. Different concentrations of compounds were added to the cells. After 48 hours, stock MTT solution (10 µl) was added to the culture plate. Cells were again kept in CO₂ incubator for 2 hours. After incubation 100 µL of DMSO was added and mixed. The absorbance was read at 562 nm in a plate reader. The results were represented as percentage of cytotoxicity/viability. All the experiments were carried out in triplicates. From the percentage of cytotoxicity the IC-50 values were calculated.

Media used was MEM (Catalog No M0643), DPBS (Catalog No D5652), 1X antibiotic solution of 100X, (Catalog No A5955), 1% Sodium pyruvate (Catalog No.S8636), 1% Non essential amino acids (Catalog No M7145), 10% fetal bovine ser (Catalog No F2442), DMSO (Catalog No D5879), Trypsin-EDTA solution (0.25%, 2.5 g porcine trypsin and 0.2 g EDTA) (Catalog No T4049).

Reference
