Title:	Pd(II)-Catalyzed, Picolinamide-Aided γ-(sp2)-C–H Functionalization of Racemic and Enantiopure α-Methylbenzylamine and Phenylglycinol Scaffolds
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Abstract:	In this paper, we report the Pd(II)-catalyzed, picolinamide DG-aided sp2 γ-C–H functionalization and expansion of the library of enantiopure α-methylbenzylamine and phenylglycinol scaffolds. We have shown the synthesis of a wide range of racemic and enantiopure ortho-C–H arylated, alkylated, brominated, and iodinated α-methylbenzylamine and phenylglycinol scaffolds. Various racemic and R and S (chiral) sp2 γ-C–H functionalized α-methylbenzylamine and phenylglycinol scaffolds were synthesized with good enantiopurities. Racemic and enantiopure α-methylbenzylamine and phenylglycinol derivatives are important building blocks in organic synthesis and medicinal chemistry. Accordingly, this work contributes to the expansion of the libraries of α-methylbenzylamine and phenylglycinol motifs and substrate scope development through the Pd(II)-catalyzed bidentate directing group picolinamide-aided site-selective C–H activation and functionalization method.
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