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Title:	Pd(II)-Catalyzed, Picolinamide-Aided γ -(sp ²)-C–H Functionalization of Racemic and Enantiopure α -Methylbenzylamine and Phenylglycinol Scaffolds
Authors:	Bisht, Narendra (/jspui/browse?type=author&value=Bisht%2C+Narendra) Singh, Prabhakar (/jspui/browse?type=author&value=Singh%2C+Prabhakar) Babu, Srinivasarao Arulananda (/jspui/browse?type=author&value=Babu%2C+Srinivasarao+Arulananda)
Keywords:	Picolinamide-Aided Functionalization of Racemic α -Methylbenzylamine Phenylglycinol Scaffolds
Issue Date:	2022
Publisher:	Thieme
Citation:	Synthesis (Germany), 54(18), 4059-4094.
Abstract:	In this paper, we report the Pd(II)-catalyzed, picolinamide DG-aided sp ² 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) sp ² 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.
Description:	Only IISER Mohali authors are available in the record.
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