Palladium-catalyzed asymmetric allylic alkylation using new chiral oxazoline ligand

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Enantioselective allylic alkylations have been widely employed as efficient and convenient tools for carbon-carbon bond formation in the field of organic synthesis. During the last decade, various chiral ligands have been developed for Pd-catalyzed enantioselective allylic alkylation. New oxazoline ligands were synthesized from chiral appropriate aminoalcohol and aldehyde. This newly synthesized chiral ligand coordinated with Pd-catalyzes asymmetric allylic substitution with high enantioselectivity and scalable conversion.