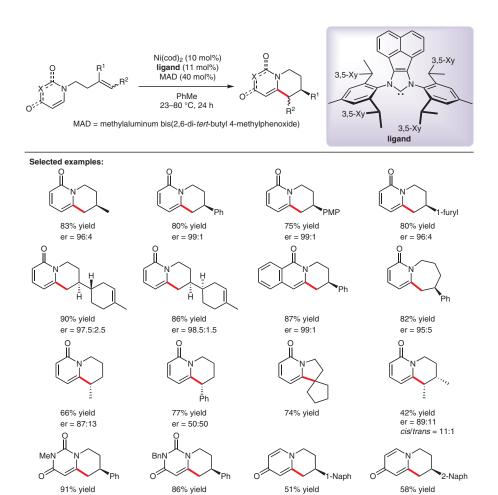
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Nickel-Catalyzed Enantioselective Pyridone C–H Functionalizations Enabled by a Bulky N-Heterocyclic Carbene Ligand

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## Nickel-Catalyzed Asymmetric C-H Functionalization of Pyridones



er = 96:4

**Significance:** Chiral pyridone backbones can be found in many bioactive compounds. The authors have developed a nickel-catalyzed enantioselective C–H functionalization of 2- and 4-pyridones by using a bulky N-heterocyclic ligand.

er = 98:2

er = 95.5

**Comment:** This nickel-catalyzed reaction permits the enantioselective intramolecular C–H functionalization of 2- and 4-pyridones. The nickel complex, based on a chiral bulky N-heterocyclic ligand, is effective in terms of selectivity, giving chiral 2- and 4-pyridones in good yields and with high enantioselectivities.

er = 99.1

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Category

Metal-Catalyzed Asymmetric Synthesis and Stereoselective Reactions

## **Key words**

nickel catalysis

C-H functionalization

pyridones

N-heterocyclic carbenes

