## SCANDIUM HALIDE AND ALKYL COMPLEXES BEARING ANIONIC-TETHERED PINCER NHC LIGANDS



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A novel expanded-ring anionic-tethered NHC pro-ligand was developed. According to <sup>1</sup>H NMR spectroscopy, for the geminal protons of the CH<sub>2</sub>groups of the 1,3-bis(3,5-di-tert-butyl-2-hydroxyphenyl)-5,5'-dimethyl-3,4,5,6-tetrahydropyrimidimium chloride a two-site exchange process is observed in CDCI<sub>3</sub> solution. Scandium complexes with both known and newly prepared pincer NHC ligands were structurally characterized.

## **Pincer NHC ligands**



Synthesis of novel *er*-NHC precursor 3



## Preparation of scandium alkyl complex



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