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Supplementary Material

Open samarocene and ytterbocenes and their adducts with *N*-heterocyclic carbene (NHC) and imidazolin-2-thiones

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Supporting Information

for

Open Samarocene and Ytterbocenes and their Adducts with *N*-Heterocyclic Carbene (NHC) and Imidazolin-2-thiones

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1. ^{1}H NMR Spectra

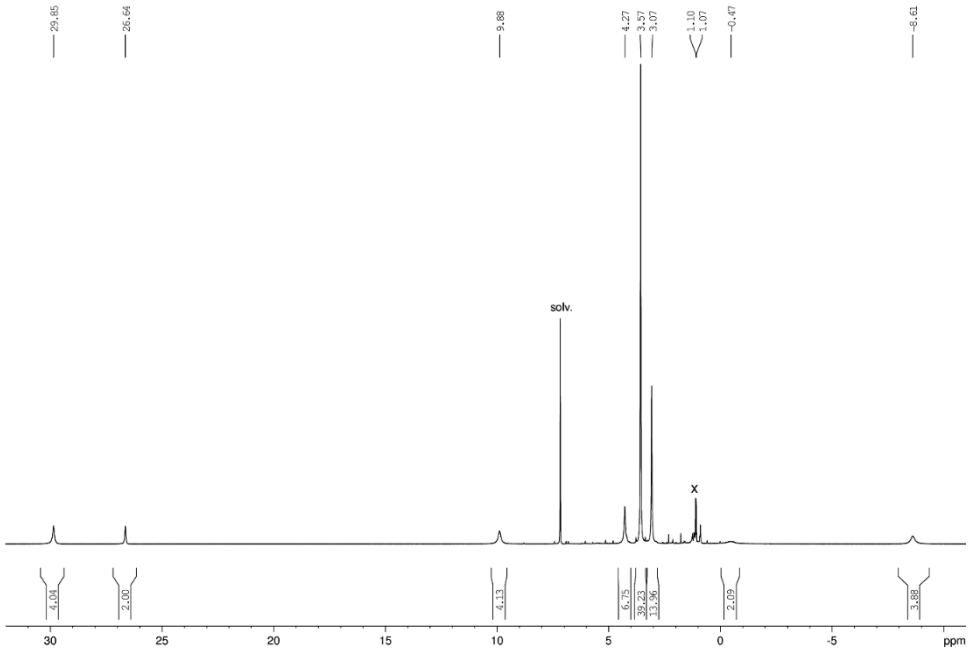

Figure S1. ^{1}H NMR spectrum for **2-Sm** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

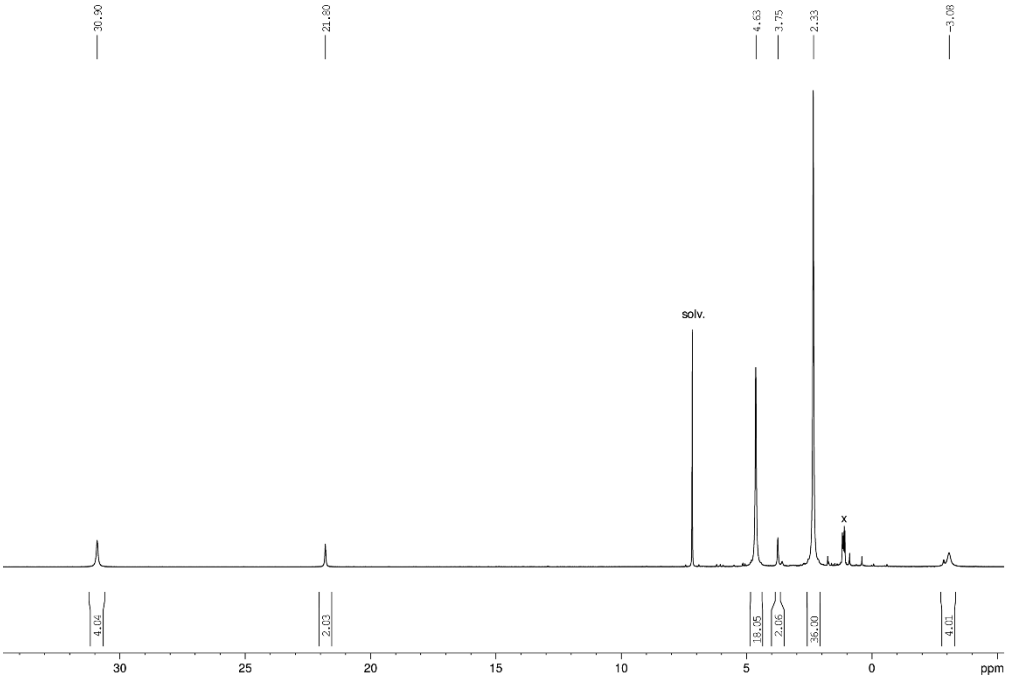

Figure S2. ^{1}H NMR spectrum for **3-Sm** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

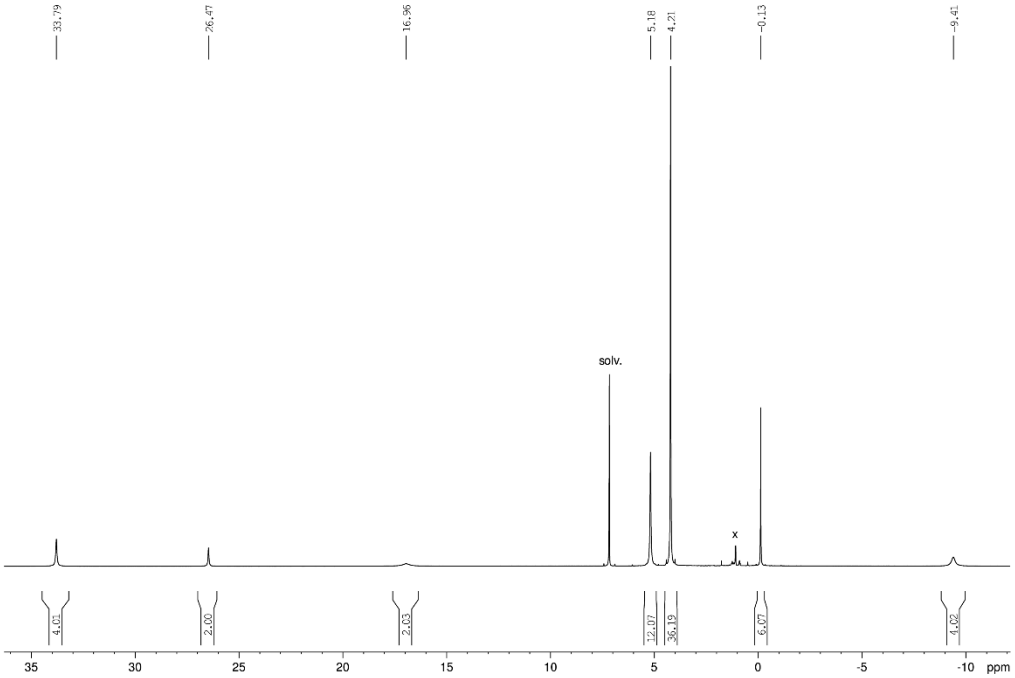

Figure S3. ^{1}H NMR spectrum for **4-Sm** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

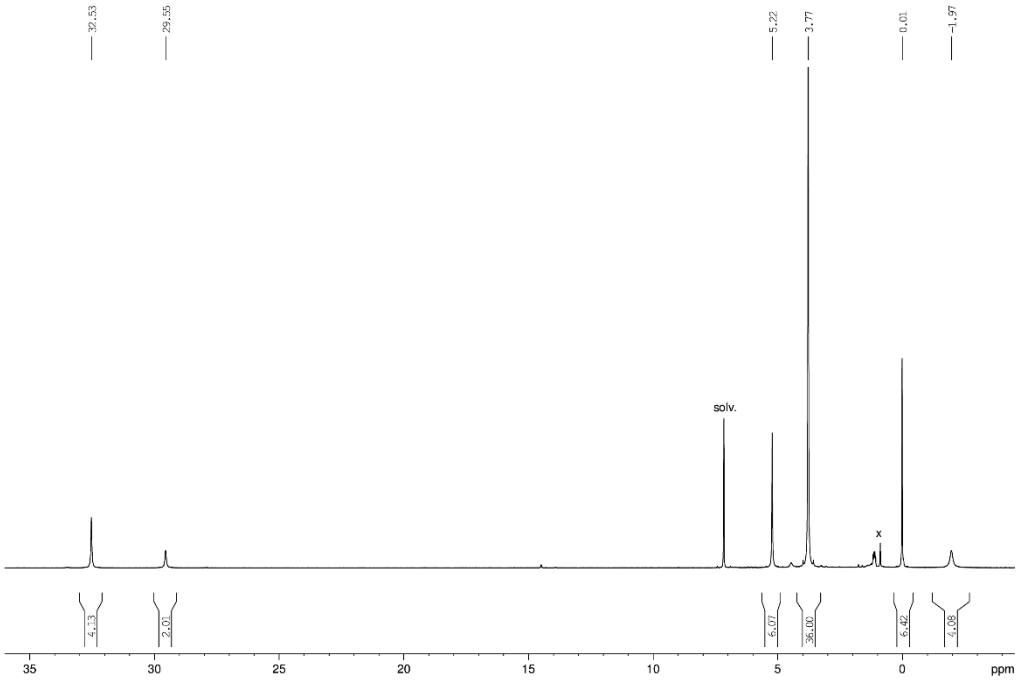

Figure S4. ^{1}H NMR spectrum for **6-Sm** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

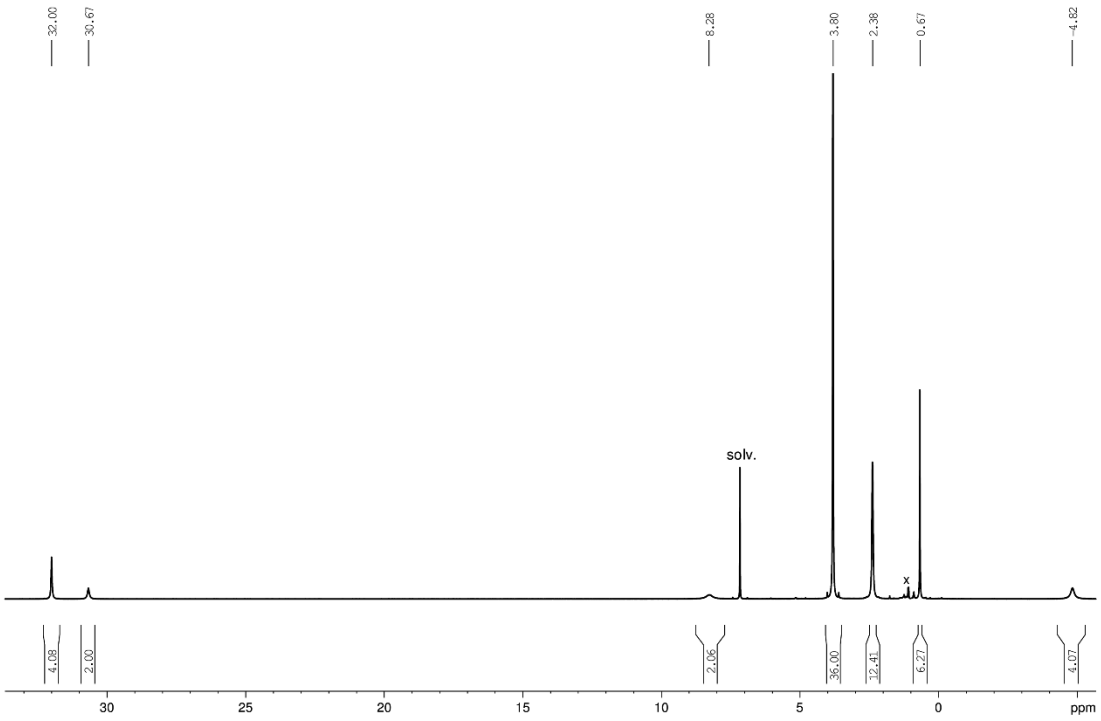

Figure S5. ^{1}H NMR spectrum for **7-Sm** recorded in C_6D_6 at ambient temperature.

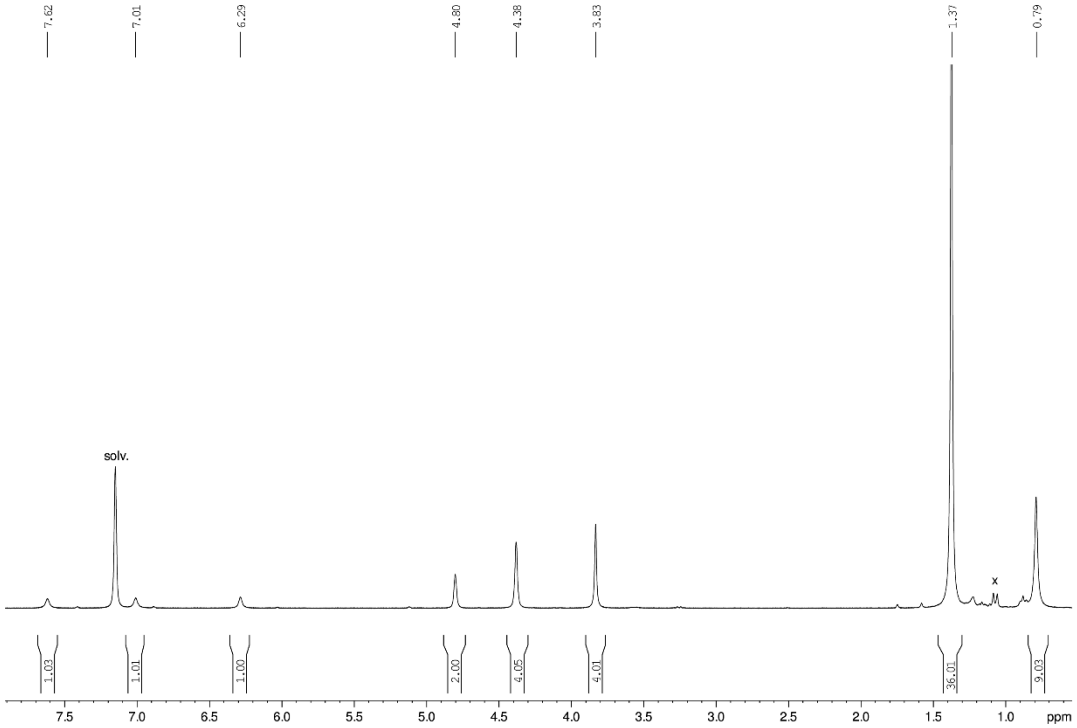

Figure S6. ^{1}H NMR spectrum for **3'-Yb** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

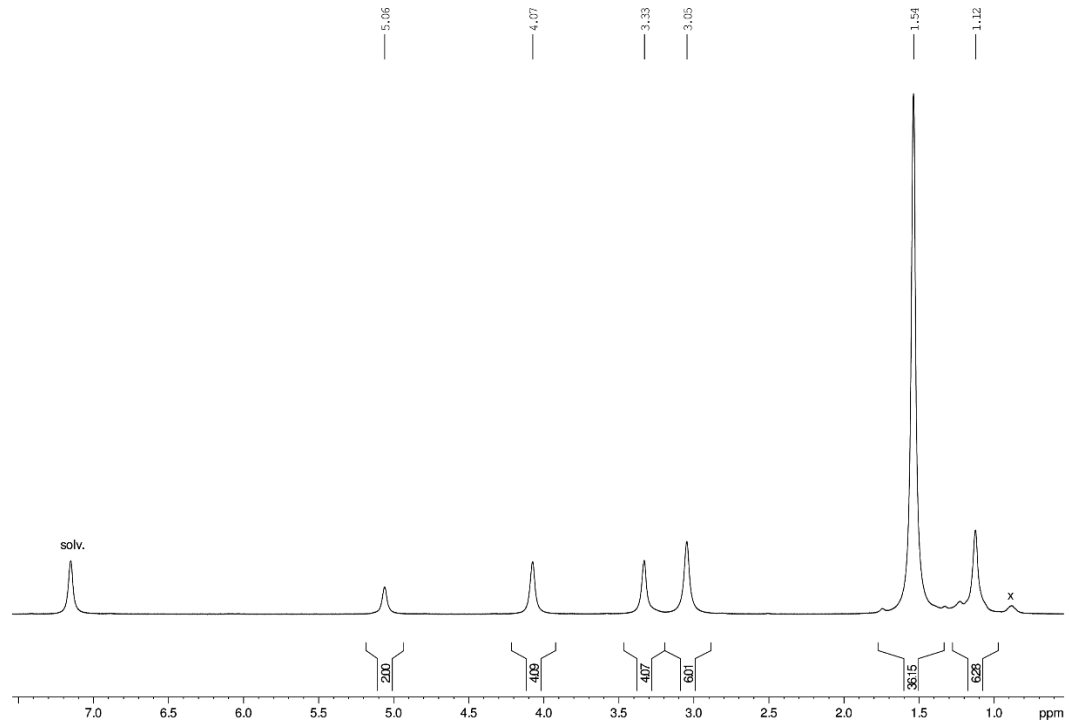

Figure S7. ^{1}H NMR spectrum for **6-Yb** recorded in C_6D_6 at ambient temperature. Resonances labeled with x indicate small amounts of Hpdl' being present.

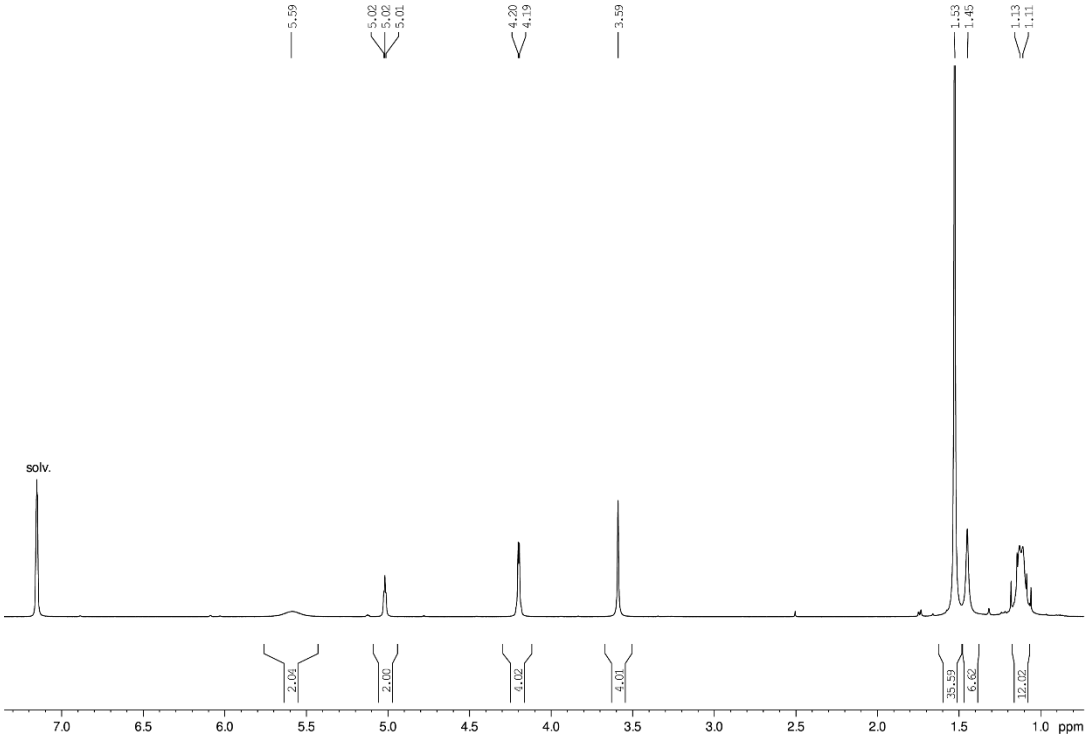

Figure S8. ^{1}H NMR spectrum for **7-Yb** recorded in C_6D_6 at ambient temperature.

2. Molecular structures

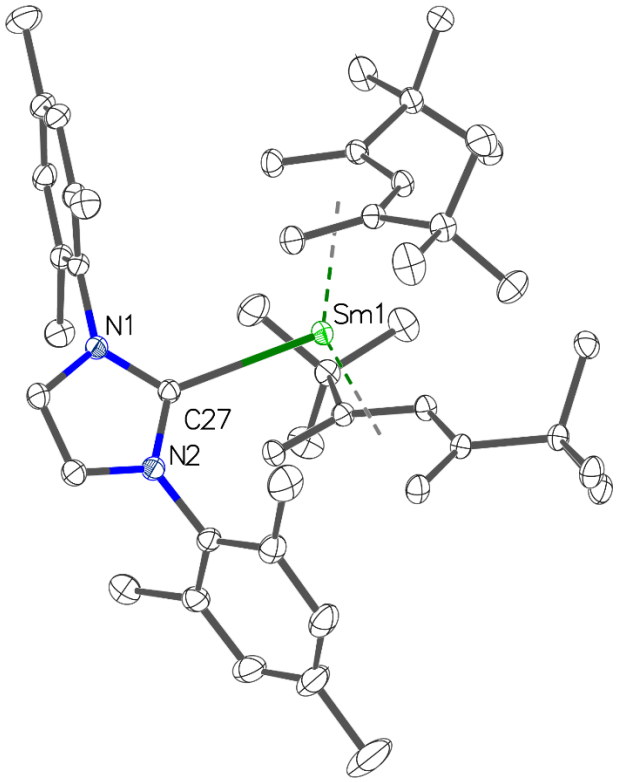

Figure S9. Molecular structure of **2-Sm**. Anisotropic displacement parameters drawn at the 50% probability level. H-Atoms are omitted for clarity.

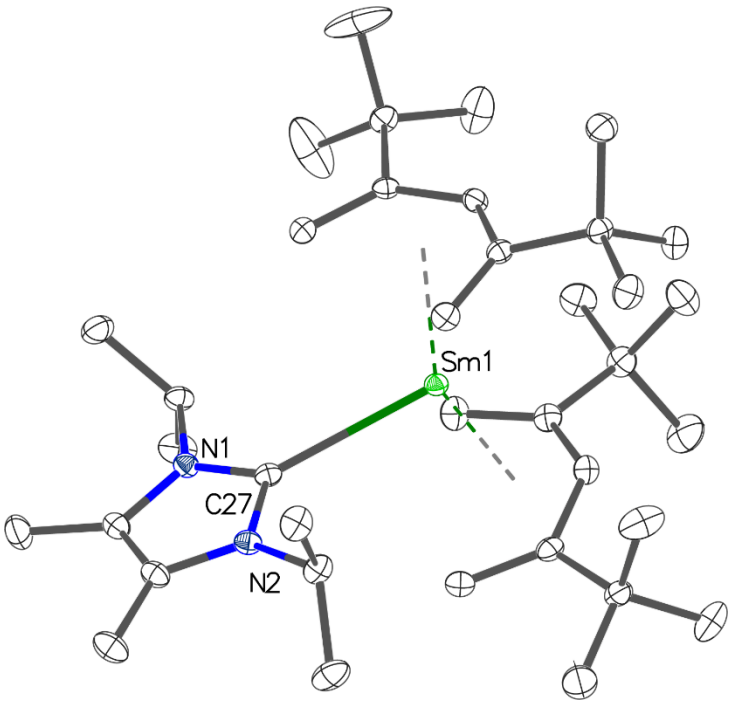

Figure S10. Molecular structure of **4-Sm**. Anisotropic displacement parameters drawn at the 50% probability level. H-Atoms are omitted for clarity.

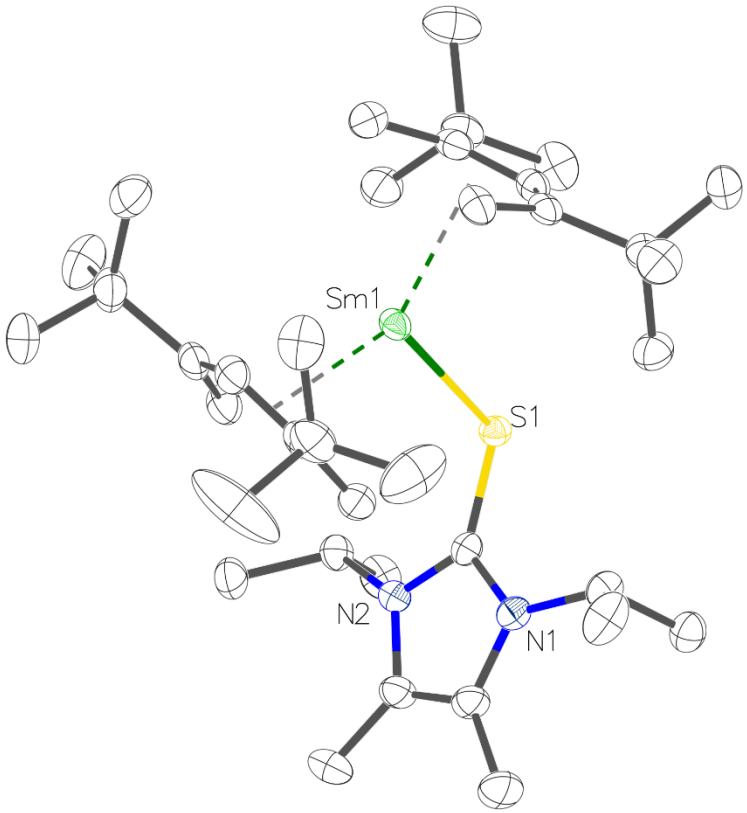

Figure S11. Molecular structure of **7-Sm**. Anisotropic displacement parameters drawn at the 50% probability level. H-Atoms are omitted for clarity.

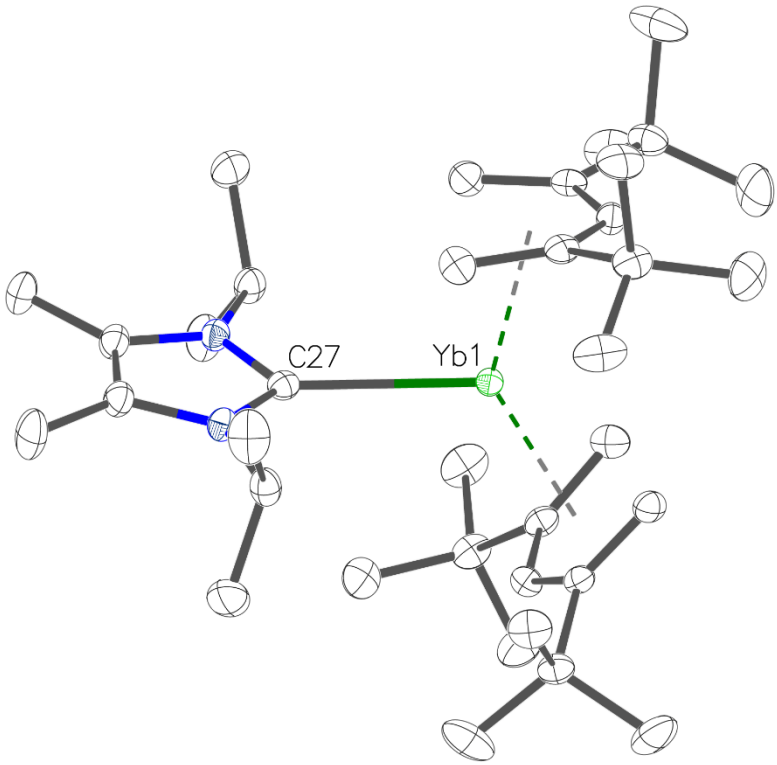

Figure S12. Molecular structure of **4-Yb**. Anisotropic displacement parameters drawn at the 50% probability level. H-Atoms are omitted for clarity.

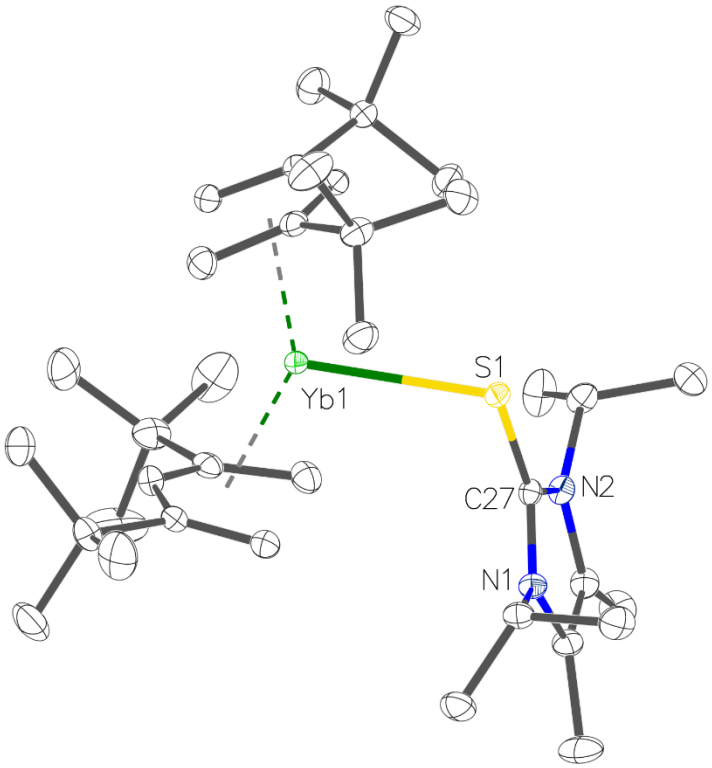

Figure S13. Molecular structure of **7-Yb**. Anisotropic displacement parameters drawn at the 50% probability level. H-Atoms are omitted for clarity.