

Supplementary Material

Chloro(η^2 , η^2 -cycloocta-1,5-diene){1-benzyl-3-[(*S*)-2-hydroxy-1-methylethyl]benzimidazol-2-ylidene}rhodium(I)

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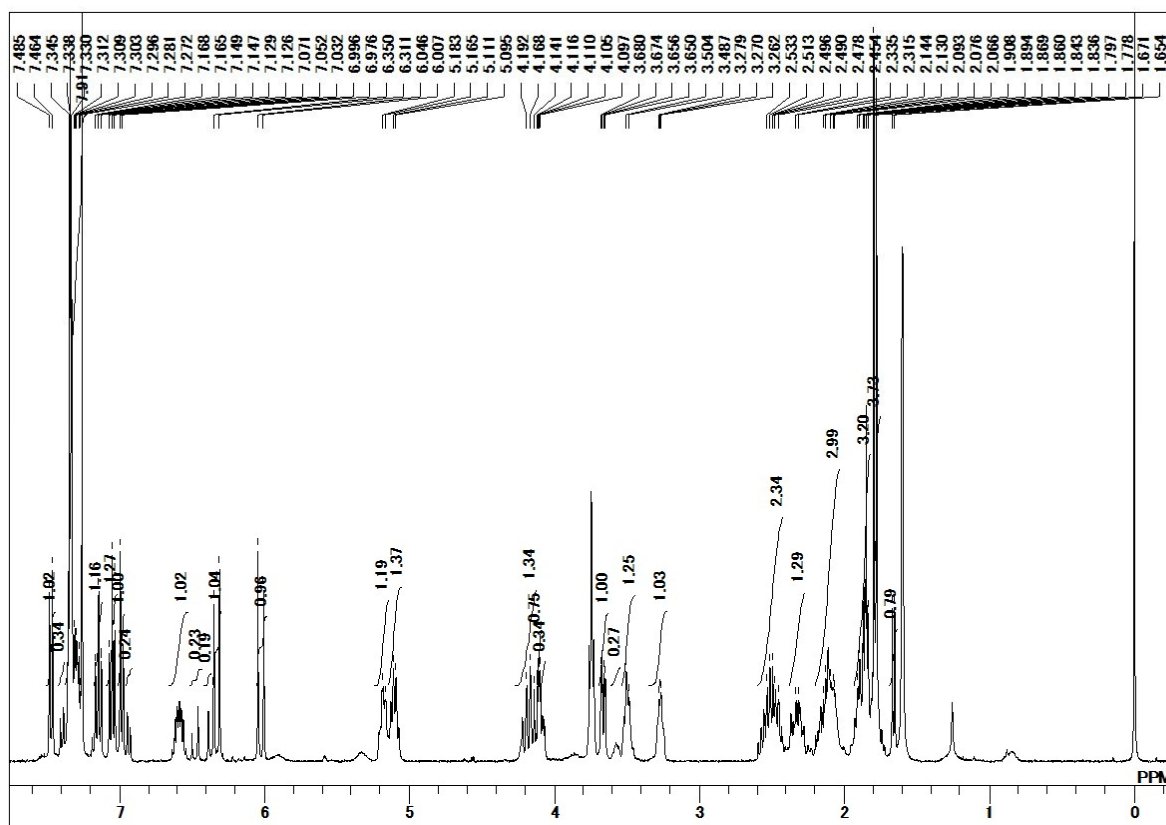
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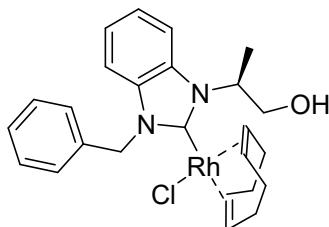
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Figure S1. ^1H NMR of compound 1b



Several broad small signals appeared. The amount of the unidentified impurity is very small.



HRMS (ESI-TOF), m/z : calcd for $\text{C}_{25}\text{H}_{30}\text{N}_2\text{ORh}$ $[\text{M}-\text{Cl}]^+$, 477.1408, found, 477.1385.

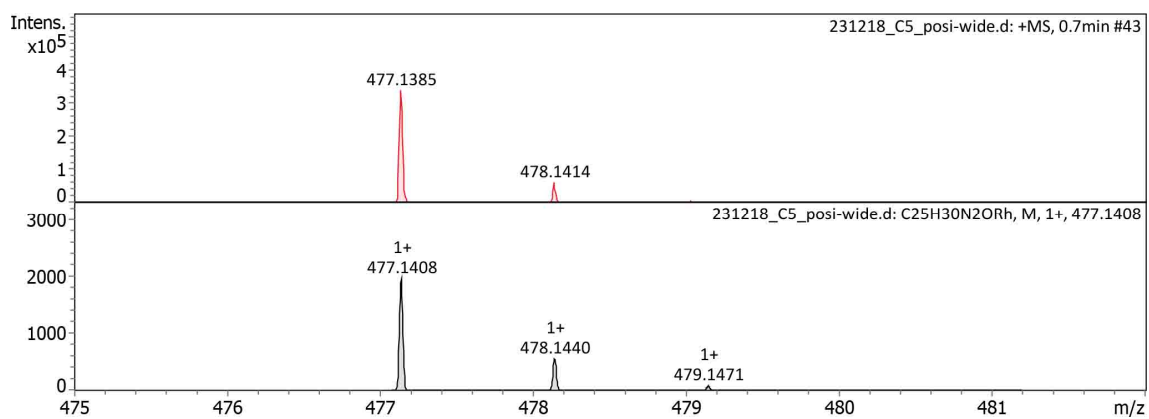


Figure S2. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound 1b

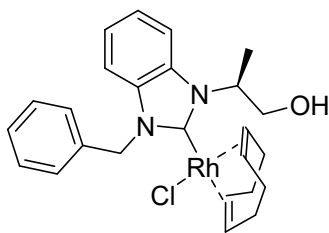
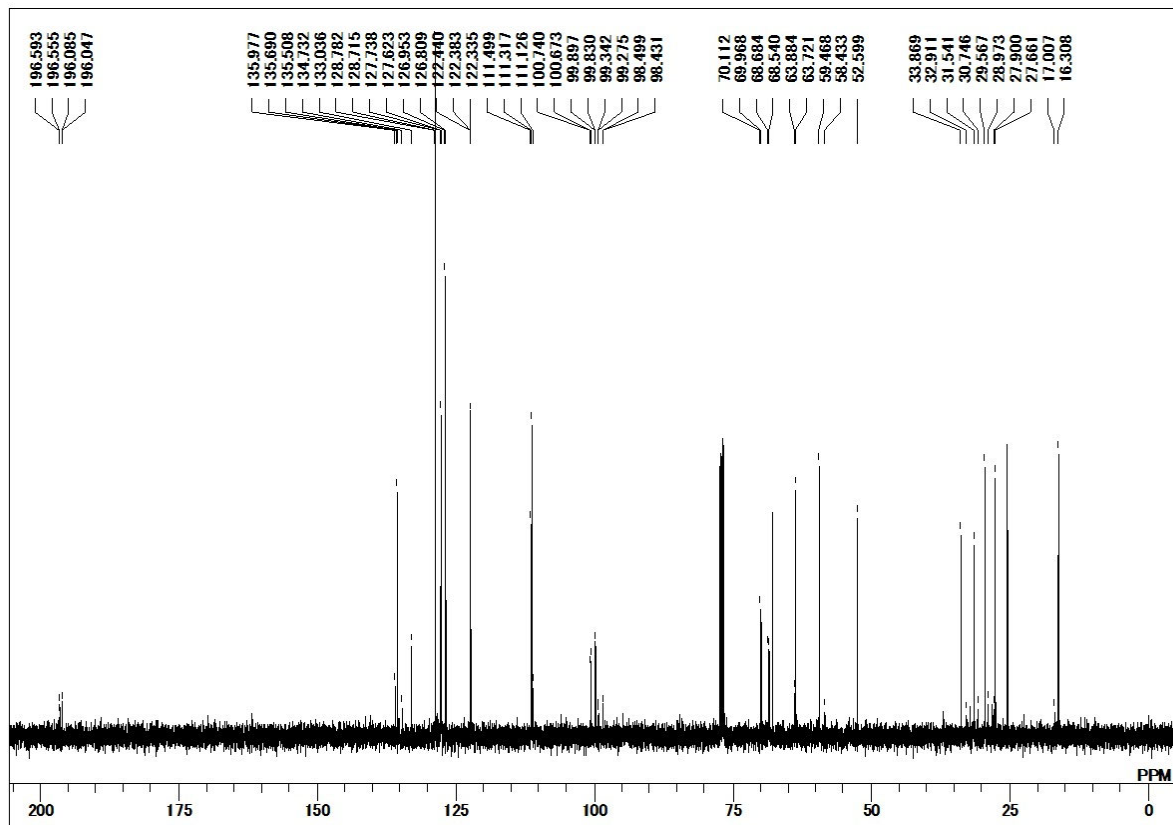


Figure S3. ^1H NMR of compound 2a

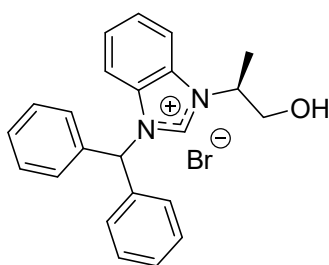
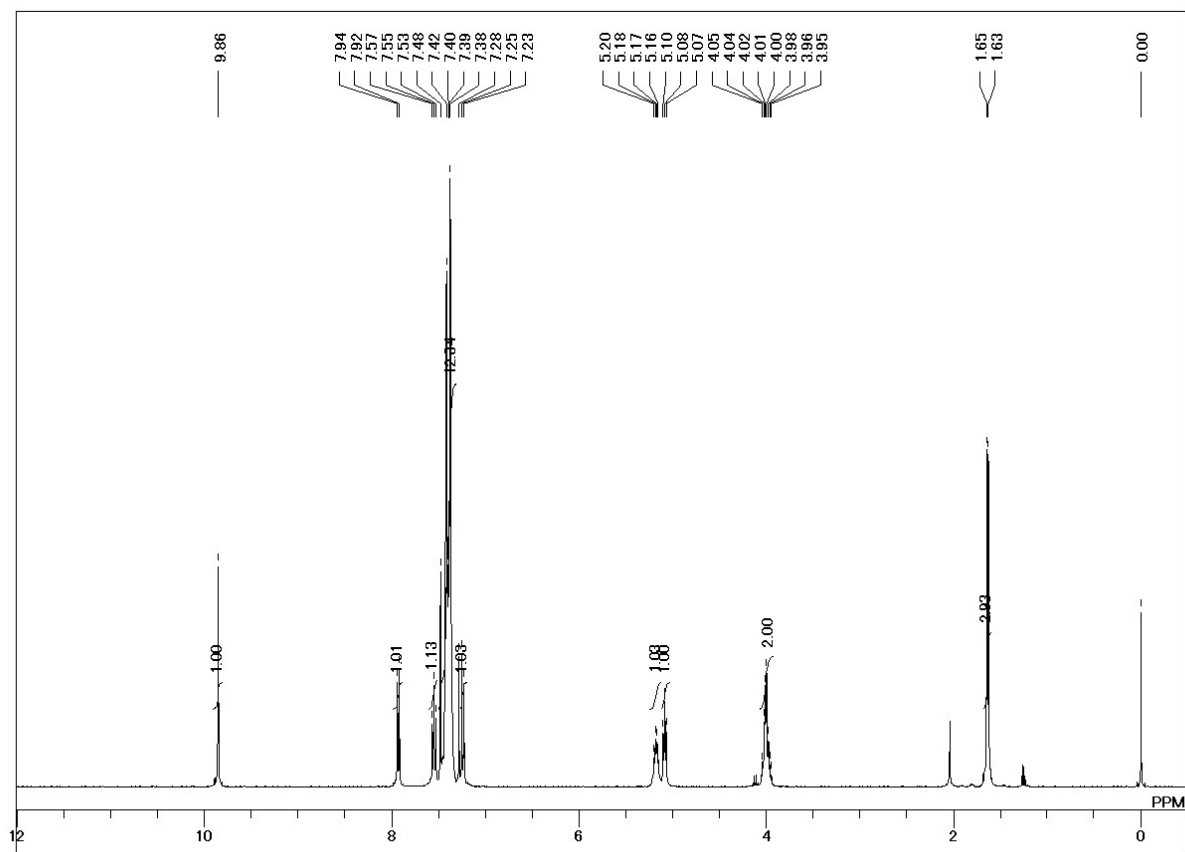


Figure S4. $^{13}\text{C}\{^1\text{H}\}$ NMR of compound 2a

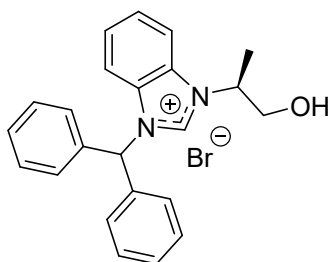
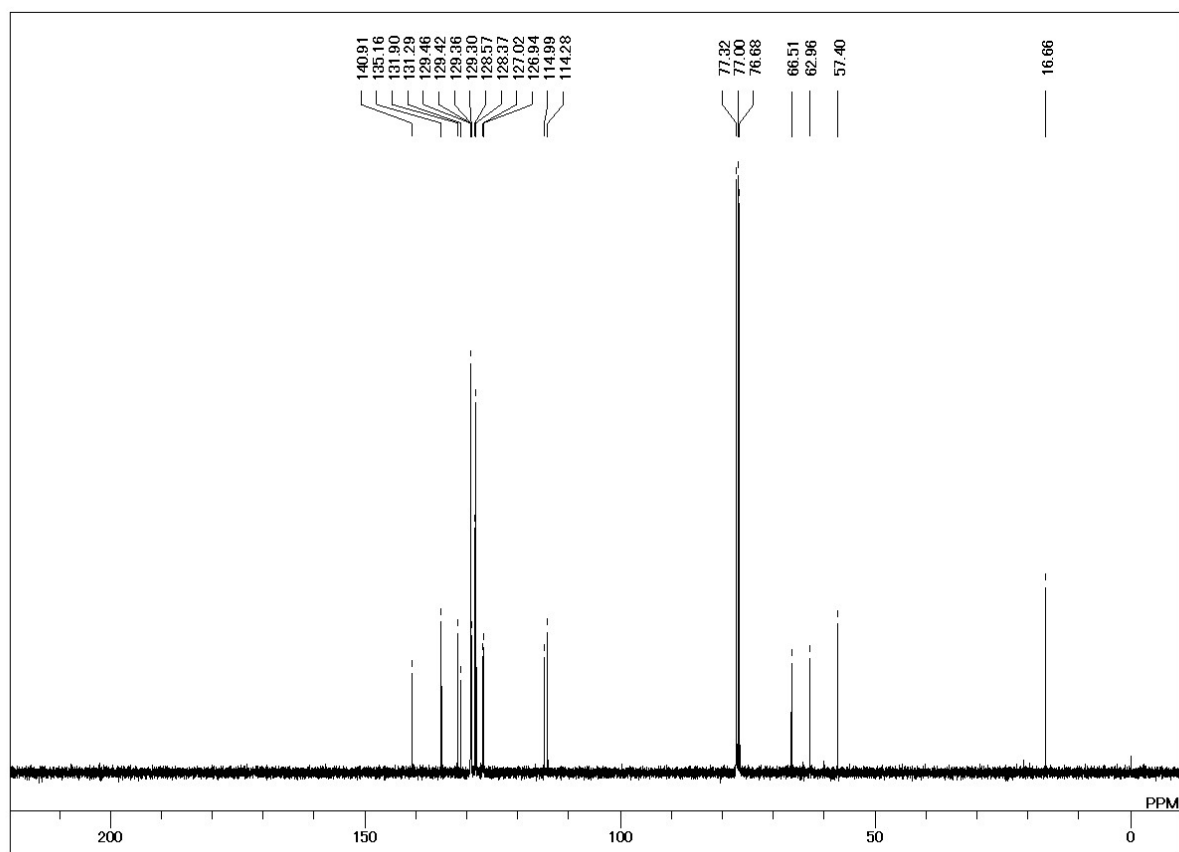
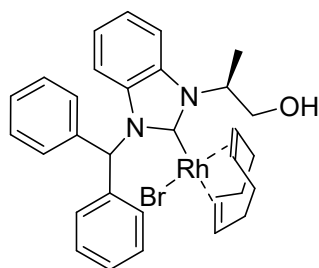
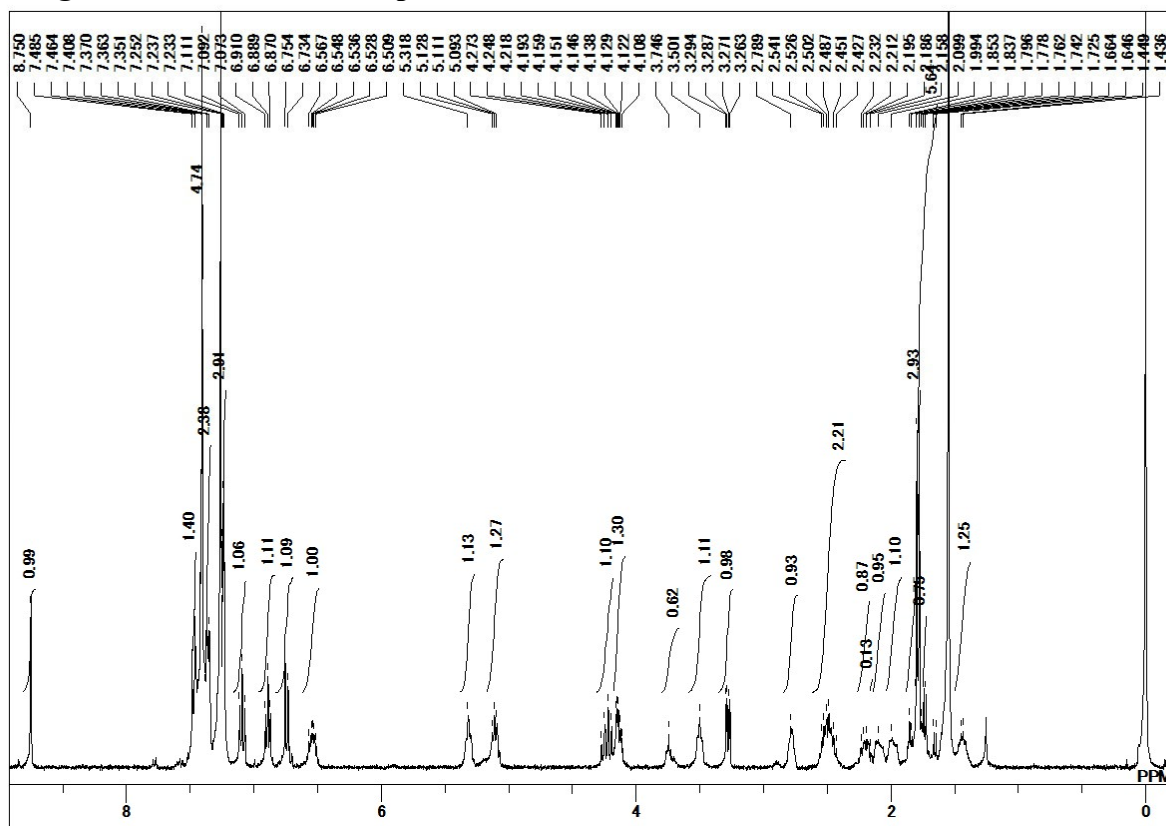


Figure S5. ^1H NMR of compound 2b



HRMS (ESI-TOF), m/z : calcd for $\text{C}_{31}\text{H}_{34}\text{N}_2\text{Rh} [\text{M}-\text{Br}]^+$, 553.1721, found, 553.1723.

