**Supporting Information** 

## Catalytic Phenylborylation Reaction by Iridium (0) Nanoparticles Produced from Hydridoiridium Carborane

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**Figure S-1** <sup>1</sup>H NMR of PhB(OH)<sub>2</sub> in DMSO-d<sub>6</sub>





**Figure S-2** <sup>13</sup>C NMR of PhB(OH)<sub>2</sub> in DMSO-d<sub>6</sub>



**Figure S-3**<sup>11</sup>B NMR of PhB(OH)<sub>2</sub> in DMSO-d<sub>6</sub>







**Figure S-5**<sup>13</sup> C NMR of Me-PhB(OH)<sub>2</sub> in DMSO-d<sub>6</sub>

Me-Ph in DMSO-d6







OMe-Ph in DMSO-d6



Figure S-9<sup>13</sup>C NMR of F<sub>3</sub>C-PhB(OH)<sub>2</sub> in DMSO-d<sub>6</sub>



CF3-Ph in DMSO



Figure S-11 <sup>31</sup>P NMR of [THTdP][MS] stabilized nano-Ir(0) in CD<sub>2</sub>Cl<sub>2</sub>



**Figure S-12** <sup>13</sup>C NMR of [THTdP][MS] stabilized nano-Ir(0) in CD<sub>2</sub>Cl<sub>2</sub>



Figure S-13 TEM image of nano-Ir after 4 runs

