

## SUPPORTING INFORMATION

# A Pirouette on a Metallofullerene Sphere: Interconversion of Isomers of N-Tritylpyrrolidino I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub>

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**Figure S1.** MALDI-TOF mass spectra using a 9-nitroanthracene matrix and positive ionization.

**Figure S1a:** 5,6-(N-Tritylpyrrolidino) adduct of I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub> (**1a**)

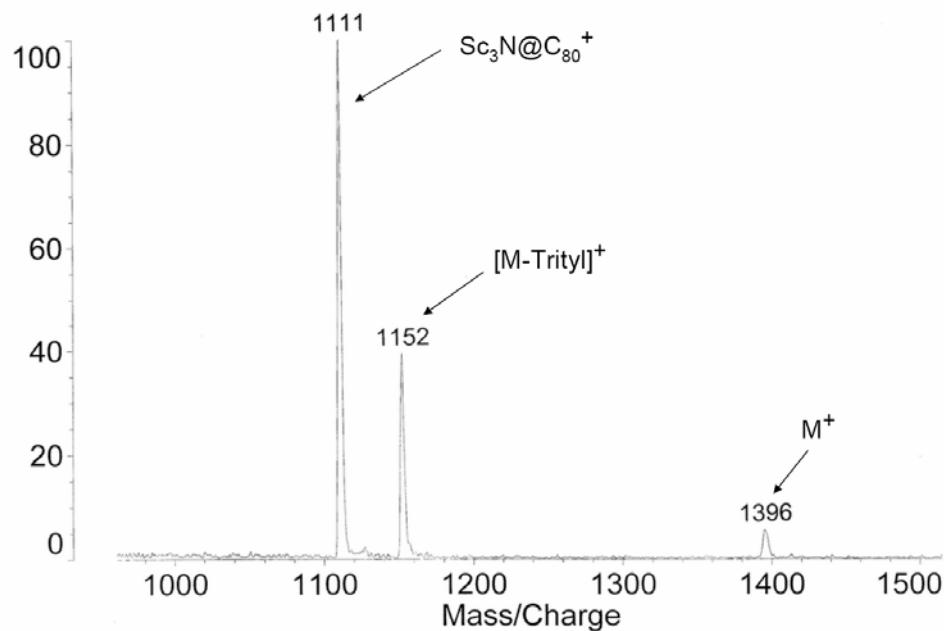
**Figure S1b:** 6,6-(N-Tritylpyrrolidino) adduct of I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub> (**1b**)

**Figure S2.** 500MHz COSY spectrum of 5,6-(N-tritylpyrrolidino) adduct of I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub> (**1a**)  
[solvent: 10/90 (v/v) CD<sub>3</sub>COCD<sub>3</sub>/CS<sub>2</sub>], 25 °C.

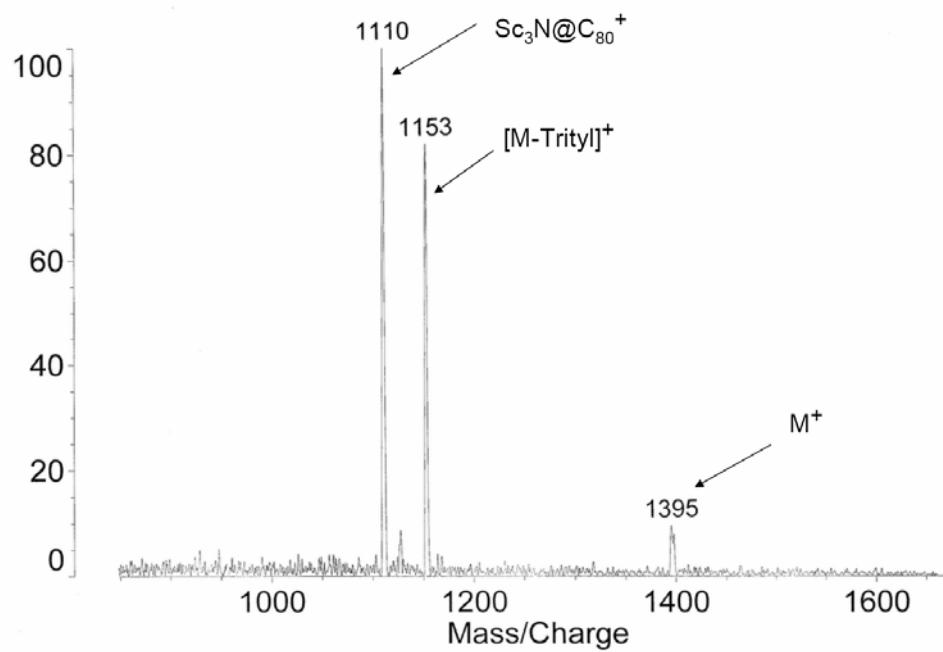
**Figure S3.** 500MHz HMQC spectrum of 5,6-(N-tritylpyrrolidino) adduct of I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub> (**1a**)  
[solvent: 10/90 (v/v) CD<sub>3</sub>COCD<sub>3</sub>/CS<sub>2</sub>], 25 °C.

**Figure S4.** 500MHz HMQC spectrum of 6,6-(N-tritylpyrrolidino) adduct of I<sub>h</sub> Sc<sub>3</sub>N@C<sub>80</sub> (**1b**)  
[solvent: CDCl<sub>3</sub>, 55°C].

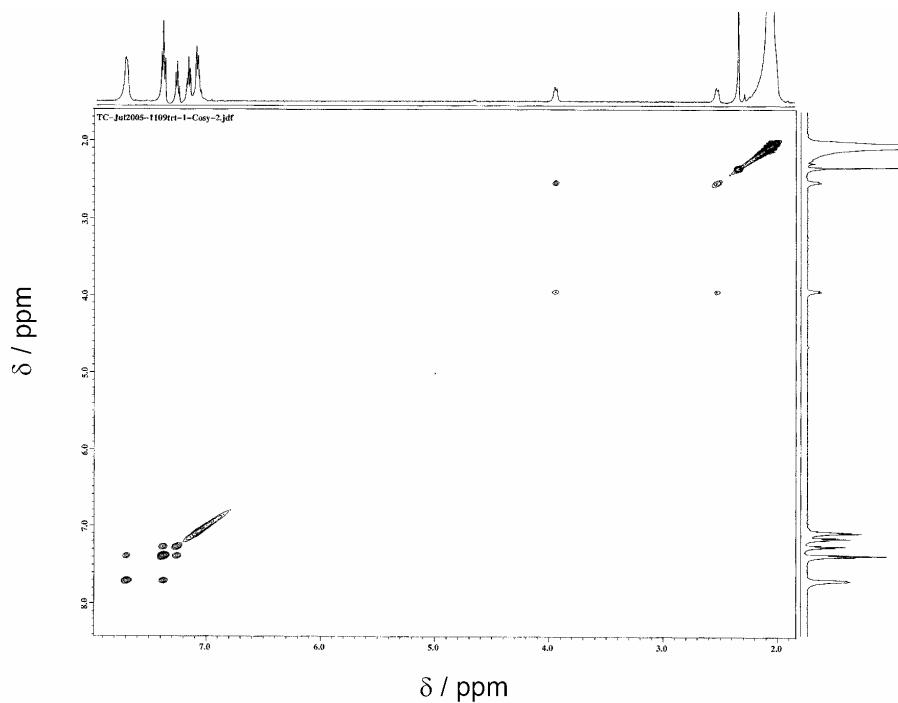
**Figure S1a.**



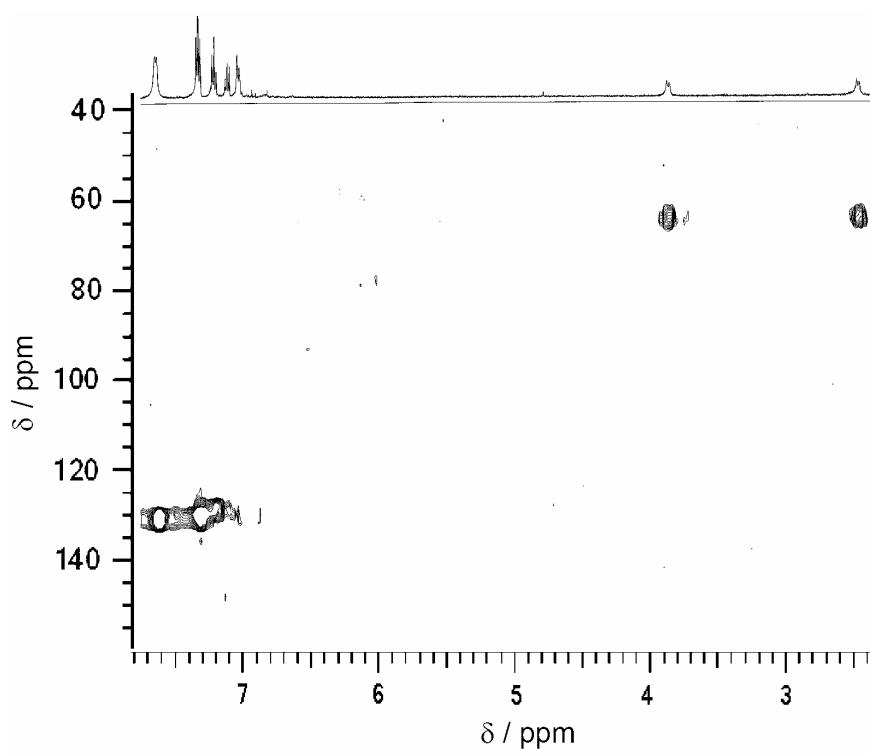
**Figure S1b.**



**Figure S2.**



**Figure S3.**



**Figure S4.**

