

## Supporting Information

### Syntheses and Structures of Stable 1-Aminoalumole Derivatives

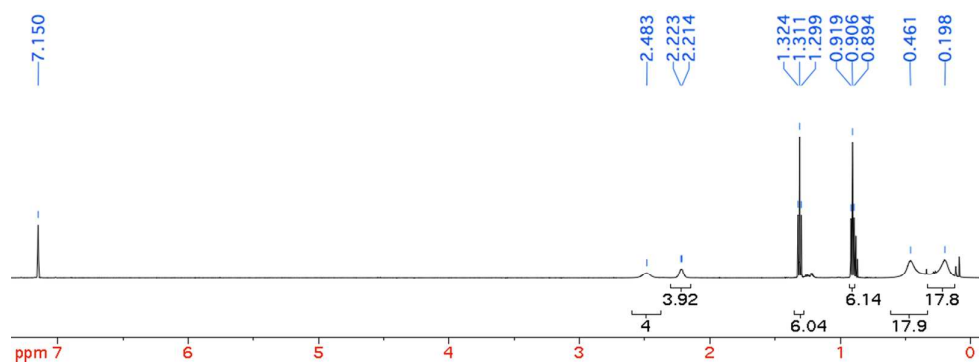
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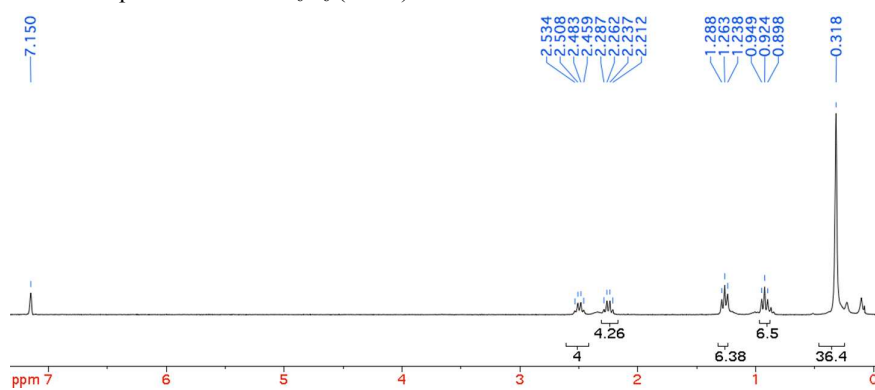
[tokitoh@boc.kuicr.kyoto-u.ac.jp](mailto:tokitoh@boc.kuicr.kyoto-u.ac.jp)

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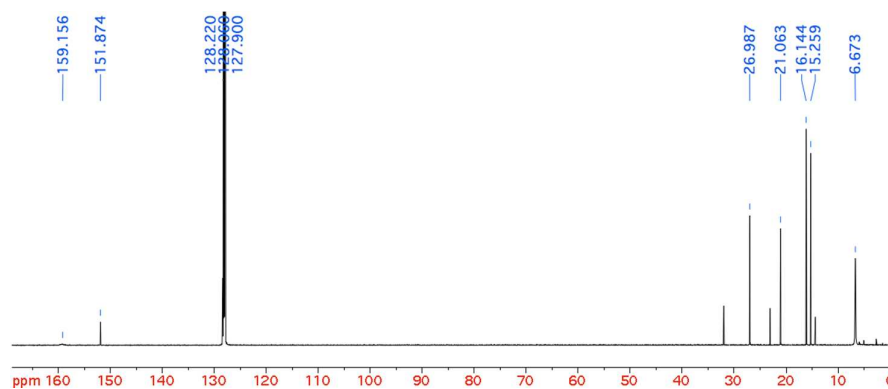
NMR spectra of <b>5</b> .....	S2
NMR spectra of <b>6</b> .....	S4
Complete citation of the reference 22.....	S5



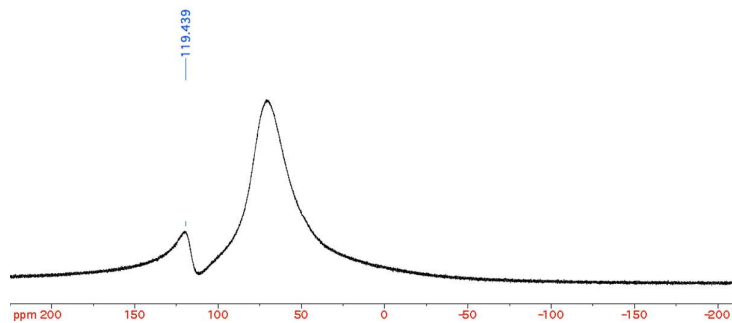
**Figure S1.**  $^1\text{H}$  NMR spectrum of **5** in  $\text{C}_6\text{D}_6$  (25 °C).



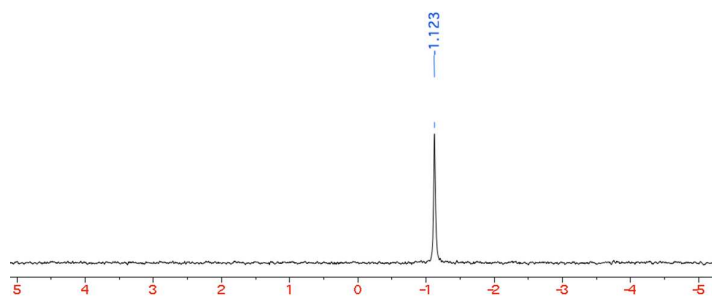
**Figure S2.**  $^1\text{H}$  NMR spectrum of **5** in  $\text{C}_6\text{D}_6$  (70 °C)



**Figure S3.**  $^{13}\text{C}$  NMR spectrum of **5** in  $\text{C}_6\text{D}_6$ .



**Figure S4.**  $^{27}\text{Al}$  NMR spectrum of **5** in  $\text{C}_6\text{D}_6$ .



**Figure S5.**  $^7\text{Li}$  NMR spectrum of **5** in  $\text{C}_6\text{D}_6$ .



*Gaussian 09* (Revision C.01), Frisch, M. J.; Trucks, G. W.; Schlegel, H. B.; Scuseria, G. E.; Robb, M. A.; Cheeseman, J. R.; Scalmani, G.; Barone, V.; Mennucci, B.; Petersson, G. A.; Nakatsuji, H.; Caricato, M.; Li, X.; Hratchian, H. P.; Izmaylov, A. F.; Bloino, J.; Zheng, G.; Sonnenberg, J. L.; Hada, M.; Ehara, M.; Toyota, K.; Fukuda, R.; Hasegawa, J.; Ishida, M.; Nakajima, T.; Honda, Y.; Kitao, O.; Nakai, H.; Vreven, T.; Montgomery, J. A., Jr.; Peralta, J. E.; Ogliaro, F.; Bearpark, M.; Heyd, J. J.; Brothers, E.; Kudin, K. N.; Staroverov, V. N.; Kobayashi, R.; Normand, J.; Raghavachari, K.; Rendell, A.; Burant, J. C.; Iyengar, S. S.; Tomasi, J.; Cossi, M.; Rega, N.; Millam, M. J.; Klene, M.; Knox, J. E.; Cross, J. B.; Bakken, V.; Adamo, C.; Jaramillo, J.; Gomperts, R.; Stratmann, R. E.; Yazyev, O.; Austin, A. J.; Cammi, R.; Pomelli, C.; Ochterski, J. W.; Martin, R. L.; Morokuma, K.; Zakrzewski, V. G.; Voth, G. A.; Salvador, P.; Dannenberg, J. J.; Dapprich, S.; Daniels, A. D.; Farkas, Ö.; Foresman, J. B.; Ortiz, J. V.; Cioslowski, J.; Fox, D. J. Gaussian, Inc., Wallingford CT, 2009.