

Total Synthesis of Bafilomycin A₁ Relying on Iterative 1,2-Induction in Acyclic Precursors [*J. Am. Chem. Soc.* **2001**, *123*, 10200–10206]. Stephen Hanessian*, Jianguo Ma, Wengui Wang, and Yonghua Gai

Page 10200: Yonghua Gai was inadvertently omitted in the author line.

JA025105B

10.1021/ja025105b

Published on Web 05/18/2002

Structural Characterization of an Intermediate in Arene C–H Bond Activation and Measurement of the Barrier to C–H Oxidative Addition: A Platinum(II) η^2 -Benzene Adduct [*J. Am. Chem. Soc.* **2001**, *123*, 12724–12725]. Stefan Reinartz, Peter S. White, Maurice Brookhart*, and Joseph L. Templeton

Page 12725: The statement that the barrier for conversion of $\text{Cp}^*(\text{PMe}_3)\text{Rh}(\eta^2\text{-C}_6\text{H}_6)$ to $\text{Cp}(\text{RMe}_3)\text{Rh}(\text{H})(\text{C}_6\text{H}_6)$ is unknown is incorrect. In a series of careful experiments with arenes, including benzene, complete potential energy diagrams for the reaction of $\text{C}_5\text{R}_5\text{Rh}(\text{PMe}_3)$ [R = Me, H] with arenes were constructed.^{1–4} Using laser flash photolysis to generate $\text{Cp}^*\text{Rh}(\text{PMe}_3)$ in the presence of C_6H_6 allowed direct measurement of the rate of conversion of $\text{Cp}^*\text{Rh}(\text{PMe}_3)(\eta^2\text{-C}_6\text{H}_6)$ to $\text{Cp}^*\text{Rh}(\text{PMe}_3)(\text{H})(\text{C}_6\text{H}_5)$.² The values of ΔH^\ddagger and ΔS^\ddagger were extracted, and at 252 K the calculated ΔG^\ddagger for the Rh case is 12.4 kcal/mol, quite close to the ΔG^\ddagger value of 12.7 kcal/mol that we reported for the Pt(II) system. A thorough discussion of the arene rhodium adducts is contained in ref 1 and the reactions of benzene with $\text{C}_5\text{R}_5(\text{PMe}_3)$ [R = Me, H] are presented in refs 2 and 3. We deeply regret this oversight.

(1) Chin, R. M.; Dong, L.; Duckett, S. B.; Partridge, M. G.; Jones, W. D.; Perutz, R. N. *J. Am. Chem. Soc.* **1993**, *115*, 7685–7695.

(2) Belt, S. T.; Dong, L.; Duckett, S. B.; Jones, W. D.; Partridge, M. G.; Perutz, R. N. *J. Chem. Soc., Chem. Commun.* **1991**, 266–269.

(3) Belt, S. T.; Duckett, S. B.; Helliwell, M.; Perutz, R. N. *J. Chem. Soc., Chem. Commun.* **1989**, 928–930.

(4) Chin, R. M.; Dong, L.; Duckett, S. B.; Jones, W. D. *Organometallics* **1992**, *11*, 871–876.

JA0251017

10.1021/ja0251017

Published on Web 05/21/2002