Y. NISHIMOTO, M. TAKEUCHI, M. YASUDA, A. BABA* (OSAKA UNIVERSITY, JAPAN)

Synthesis of Alkylbismuths by Regiodivergent Carbobismuthination of Simple Alkenes

Chem. Eur. J. **2013**, *19*, 14411–14415.

Bismuth-Mediated Switchable Regioselective Carbometalation

Selected examples:

Significance: Baba and co-workers report a novel carbobismuthination reaction of alkenes using bismuth trihalides and ketene silyl acetals. Furthermore, in this protocol, the first switch in regioselectivity of the carbometalation using BiCl_3 instead of BiBr_3 is reported.

Comment: The resultant alkylbismuth compounds react with a range of reagents in order to give functionalized aliphatics. Therefore, reaction with *N*-bromosuccinimide furnishes the bromide, reaction with AIBN and PhSSPh introduces a thiophenyl group, and $\text{PhI}(\text{OAc})_2$ in combination with TMSOAc gives the acetate.

SYNFACTS Contributors: Paul Knochel, Andreas K. Steib
 Synfacts 2014, 10(1), 0080 Published online: 13.12.2013
 DOI: 10.1055/s-0033-1340367; Reg-No.: P15713SF

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