



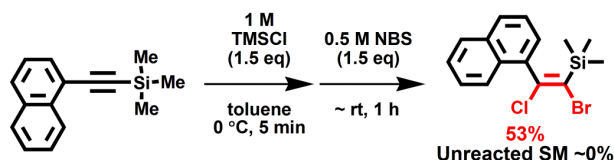
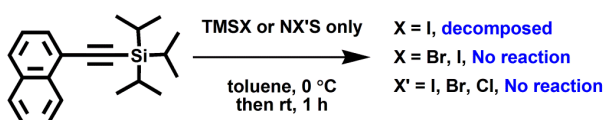
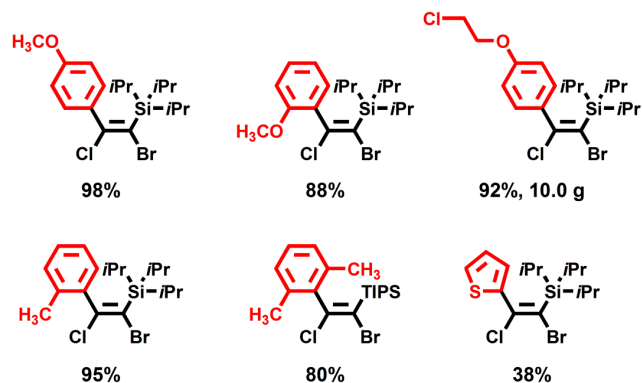
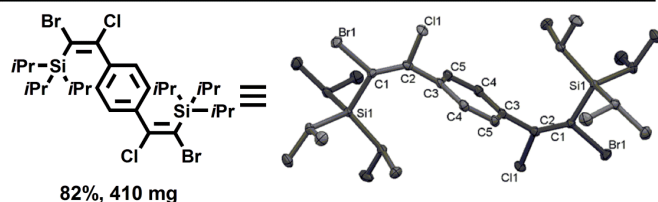
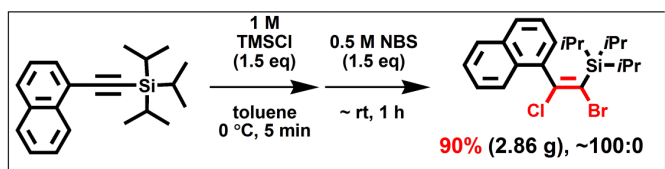
Regio- and Stereoselective Synthesis of Scaffolds for Differentially All-carbon Tetrasubstituted Olefins

Masataka Ide, Tetsuo Iwasawa

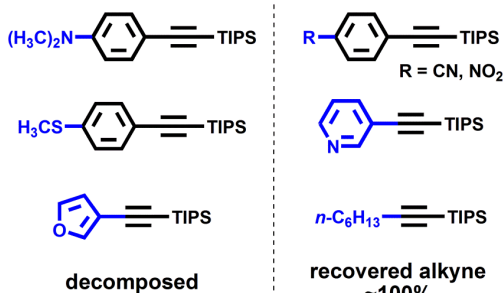
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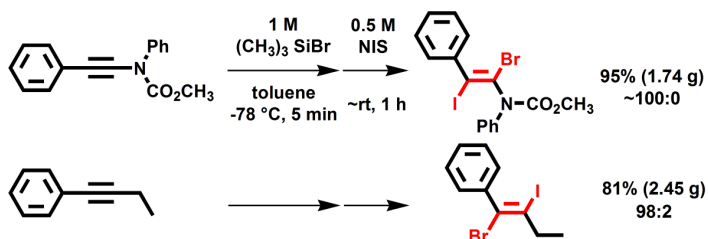
1. Summary a) Yauchi, Y.; Ide, M.; Shioagai, R.; Chikugo, T.; Iwasawa, T. *Eur. J. Org. Chem.* 2015, 938-943.
b) Japanese Patent No. 2014-247030



2. Limitation

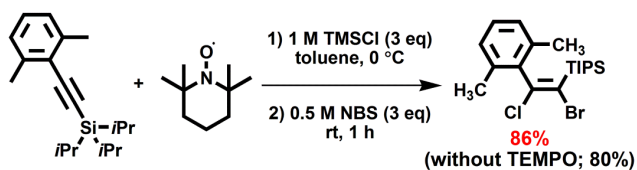


3. Background

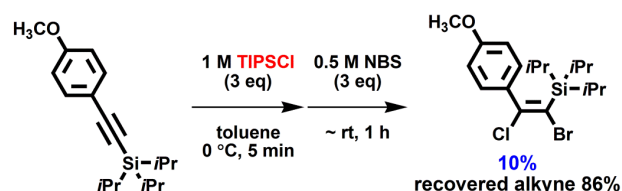


1. Ide, M.; Yauchi, Y.; Iwasawa, T. *Eur. J. Org. Chem.* 2014, 3262-3267.
2. Ide, M.; Yauchi, Y.; Shioagai, R.; Iwasawa, T. *Tetrahedron* 2014, 70, 8532-8538.

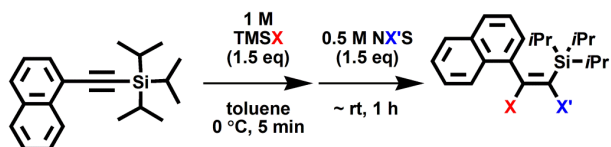
4. Radical process?



5. TIPS-Cl doesn't work



6. Halogen sources



X	X'	Yield (%)	Recovered SM (%)	Product (X/X')
I	I	-	~100	-
I	Br	78	15	BrBr
I	Cl	26	73	-
Br	I	97	0	BrBr
Br	Br	85	0	BrBr
Br	Cl	71	0	BrBr
Cl	I	63	26	-
Cl	Br	95	0	ClBr
Cl	Cl	75	2	ClCl

7. in situ BrCl

