

Synthesis of 1-haloethenamides from Ynamides Through Halotrimethylsilane-mediated Hydrohalogenation

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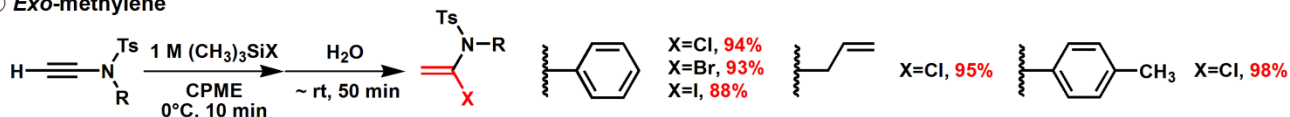
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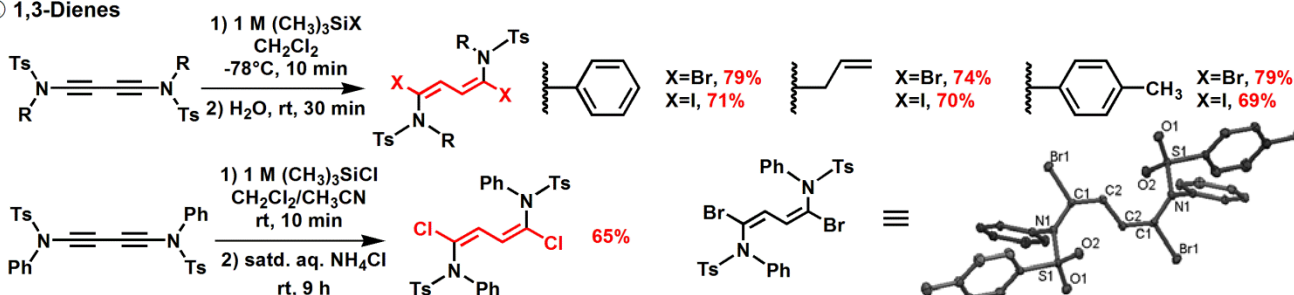
1. Summary

a) Ohashi, K.; Ide, M.; Mihara, S.; Sato, A. H.; Ide, M.; Iwasawa, T. *Tetrahedron Lett.* 2014, 55, 632-635.
 b) Ide, M.; Ohashi, K.; Mihara, S.; Iwasawa, T. *Tetrahedron Lett.* 2014, 55, 2130-2133.

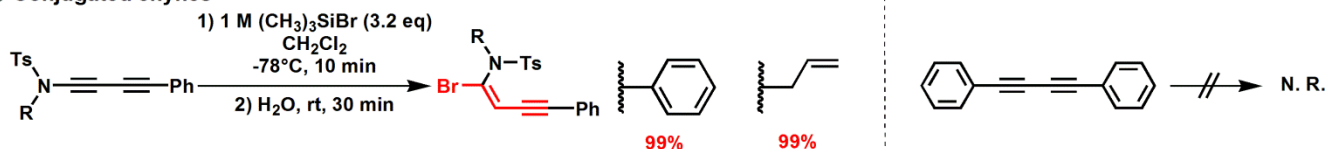
① Exo-methylene



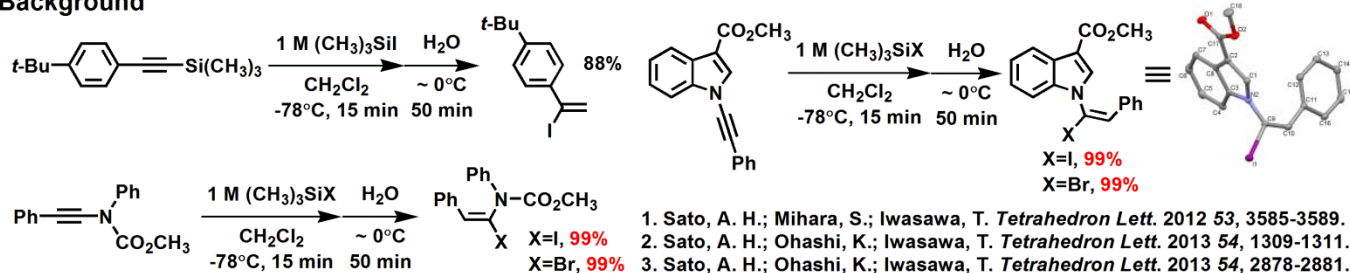
② 1,3-Dienes



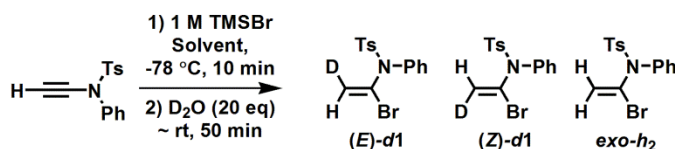
③ Conjugated enynes



2. Background

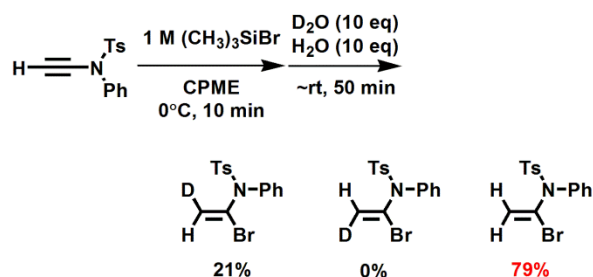


3. Deuteriobromination

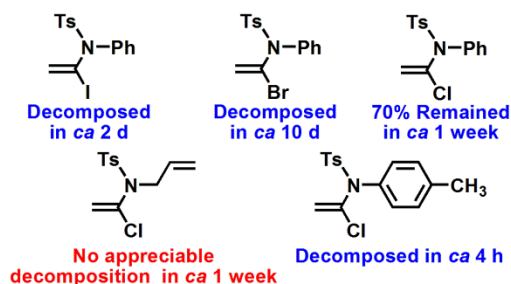


Solvent	Yield/%		
	(E)-d1	(Z)-d1	exo-h ₂
CPME	85	0	9
diethyl ether	72	18	14
CH ₂ Cl ₂	26	24	14

4. Rate-determining step



5. They are quite labile...



6. Synthetic application

