Regio- and Stereoselective Iodobromination of Ynamides for Synthesis of (*E*)-1-Bromo-2-iodoenamides

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Keywords：Dihaloenamides; Iodobromination; Ynamide; Multi-substituted Olefin; Stereoselective Addition

Abstract：Haloenamides are valuable intermediates in organic synthesis. The weakly bonded iodine/bromine and electron-rich olefin are highly reactive and incredibly useful toward construction of complex molecules. From the synthetic point of view, vicinal dihaloenamides are versatile variants of enamides. Despite the intriguing utility of vicinal dihaloalkenes, their synthetic availability still remains a challenge, because of the inherent difficulty in efficient iodobromination. Herein we report the first example of a facile one-step synthesis of the vicinal bromoiodoenamides from ynamides. The transformation was accomplished by commercially available IBr and *in situ* IBr. The *in situ* IBr was successfully generated from bromotrimethylsilane and *N*-iodosuccinimide.

四置換アルケンの位置及び立体選択的合成を目指したイナミドのヨードブロモ化

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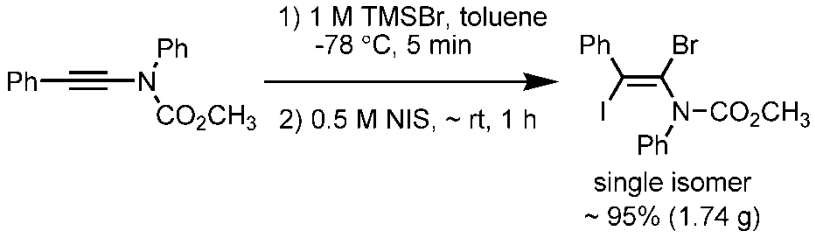
今回我々は系中発生型臭化ヨウ素の手法を用いて、ビシナル型臭化ヨウ素エナミドの効率合成に成功した (**Scheme 1**)。



Scheme 1. Regio- and stereoselective iodobromination of ynamides