

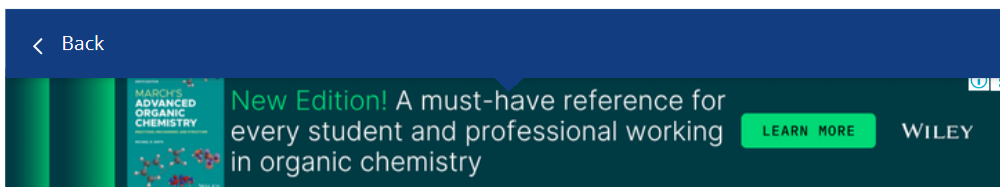
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S Rattanaburi, W Mahabusarakam, S Phongpaichit, AR Carroll. Tetrahedron 69 (30), 6070-6075

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RESEARCH ARTICLE

Regioselective 1,4-Alkynylation of C3-Tosyl-2H-Chromene Hemiketals With Terminal Alkynes to Access C4-Alkynylated 4H-Chromenes

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ABSTRACT

We herein reported the first regioselective 1,4-alkynylation of 1-benzopyrylium ions generated in situ from C3-tosyl-2H-chromene hemiketals with terminal alkynes. The use of cheap and readily available $\text{Fe}(\text{OTf})_3$ or $\text{In}(\text{OTf})_3$ as Lewis acid catalyst allowed the preparation of various C4-alkynylated C3-tosyl 4H-chromenes in moderate to good yields. The tosyl group at the C3-position of 2H-chromene hemiketals played an important role in determining the 1,4-regioselectivity. The products could be further elaborated based on the alkyne moiety.

Graphical Abstract

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