

Turkish Journal of Chemistry

Turkish Journal

A New Approach to Furan-Containing Macrolactones

of

Christoph Q. SCHMIDT, Ruth MESSMER, Franz BRACHER, Jürgen KRAUSS
Department of Pharmacy, Ludwig-Maximilians-University, Butenandtstr, 5-13, 81377 Munich-GERMANY
e-mail: hjkra@cup.uni-muenchen.de

Chemistry

 [Keywords](#)
[Authors](#)

Abstract: Furan and tetrahydrofuran heterocycles are part of many natural products, like the Galerucella pheromone, furano epothilones, bipinnatin, and amphidinolides. This paper describes a short and efficient synthetic approach to furan-containing macrolactones in 4 steps, including as key steps a Sonogashira reaction and an olefin metathesis. The resulting compounds were tested at the National Cancer Institute for their cytotoxicity, but did not exhibit significant cytotoxicity in the human tumour cell line screen.

Key Words: Sonogashira reaction, Mitsunobu reaction, metathesis, cytotoxicity



Turk. J. Chem., **31**, (2007), 251-256.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem., vol.31, iss.3.](#)

chem@tubitak.gov.tr

[Scientific Journals Home
Page](#)