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Kinugasa reaction: an “ugly duckling” of β -lactam chemistry

Sebastian Stecko, Bartłomiej Furman, Marek Chmielewski

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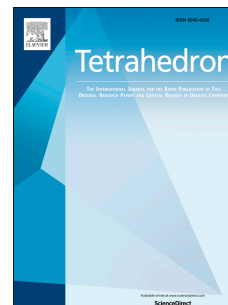
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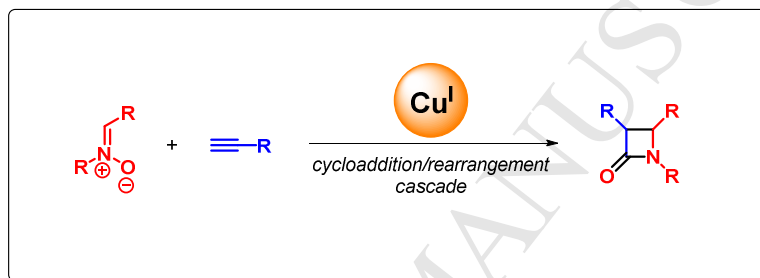
Sebastian Stecko, Bartłomiej Furman and Marek Chmielewski*

Institute of Organic Chemistry, Polish Academy of Sciences

Kasprzaka 44/52, 01-224 Warsaw, Poland

Corresponding author: marek.chmielewski@icho.edu.pl

Graphical abstract:



Abstract:

The importance of β -lactam compounds has sustained a high level of interest in the methods of their synthesis, both in academia and the industry. A number of notable strategies have been described, including the stereoselective Kinugasa reaction that provides access to optically pure β -lactams with structures difficult to build with other methods. The advantages of this reaction include the use of readily available starting materials, its high functional group tolerance, and its high atom economy. The aim of this review is to report on current state of the art of Kinugasa reaction and to emphasize synthetically useful protocols.

Keywords: β -lactams, nitrones, alkynes, cycloadditions, rearrangements, cascade reactions

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