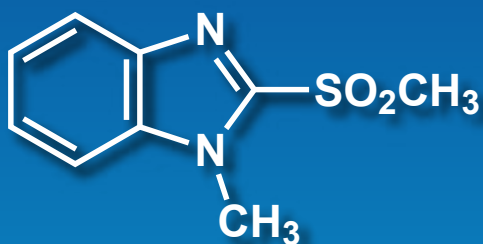


Julia-Type Methylenation Reagent Usable for Ketones and Aldehydes under Mild Conditions



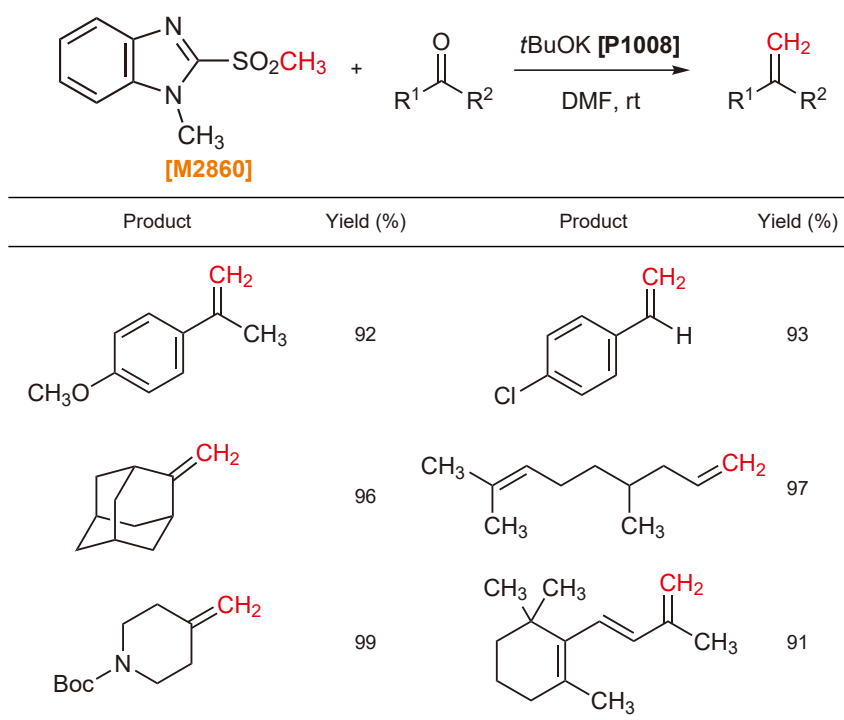
1-Methyl-2-(methylsulfonyl)benzimidazole

1g / 5g
[M2860]

Advantages

- Effective for the Methylenation of Various Ketones and Aldehydes
- High Reactivity at Room Temperature
- Easy to Remove Byproducts by Extraction

Applications



References K. Ando, T. Kobayashi, N. Uchida, *Org. Lett.* **2015**, 17, 2554. <https://doi.org/10.1021/acs.orglett.5b01049>
K. Ando, M. Oguchi, T. Kobayashi, H. Asano, N. Uchida, *J. Org. Chem.* **2020**, 85, 9936. <https://doi.org/10.1021/acs.joc.0c01227>

Related Product

Potassium *tert*-Butoxide

25g / 100g / 500g [P1008]

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Julia-Type Methylenation Reagent Usable for Ketones and Aldehydes under Mild Conditions

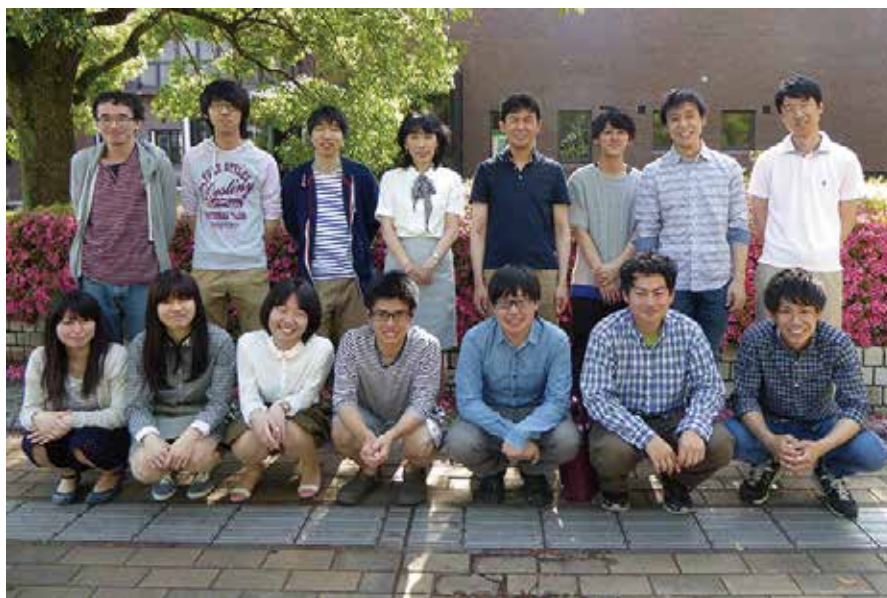
Introduction of the Researcher



Professor **Kaori Ando**

Ando Lab

Department of Chemistry and Biomolecular Science
Faculty of Engineering, Gifu University



content of the research

Ando's Laboratory has been working on the development of methodology of stereoselective synthesis of alkenes. By developing $(\text{ArO})_2\text{P}(\text{O})\text{CH}_2\text{CO}_2\text{Et}$, her group made it possible to synthesize *cis*- α,β -unsaturated esters selectively, which were hard to obtain by conventional methods. (These reagents are available at TCI). Her method can be applied to the synthesis of *cis*- α,β -unsaturated amides and nitriles as well. Since this method cannot be applied for stereoselective synthesis of alkenes, they are currently working on the development of a new methodology using the Peterson reaction and the Julia-Kocienski reaction.

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