

# 3,3,3-Trifluoropropenylation Reagent (Ikeda-Omote Reagent)



(E)-Trimethyl(3,3,3-trifluoro-1-propenyl)silane

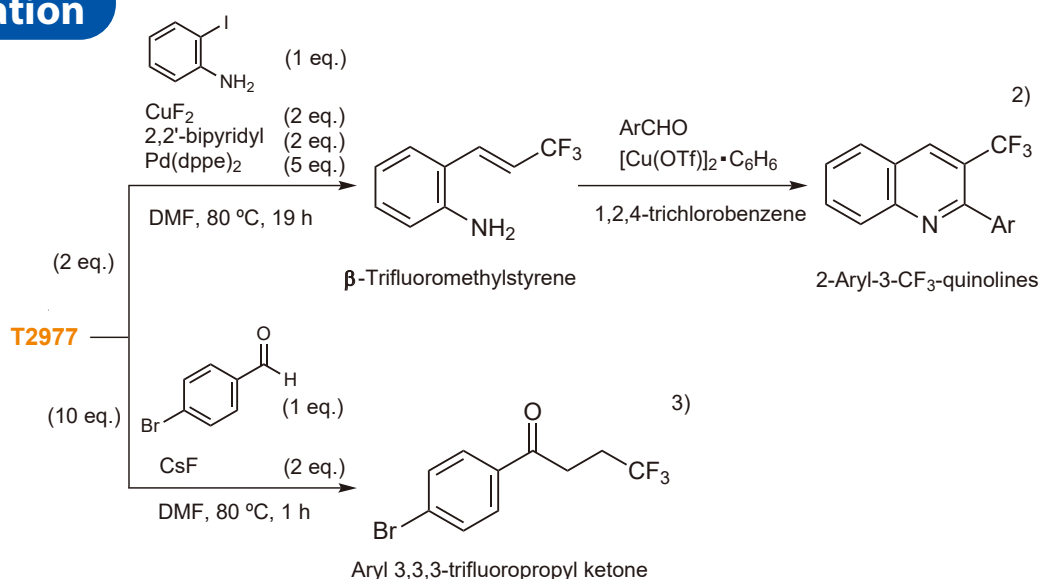
1g / 5g

[T2977]

## Advantages

- Participates in a Hiyama cross-coupling reaction with aryl iodides to construct  $\beta$ -trifluoromethylstyrenes
- Reacts with arylaldehydes in the presence of fluoride anions to afford aryl 3,3,3-trifluoropropyl ketones

## Application



- References
- 1) M. Omote, M. Tanaka, A. Ikeda, S. Nomura, A. Tarui, K. Sato, A. Ando, *Org. Lett.* **2012**, *14*, 2286.
  - 2) M. Omote, M. Tanaka, M. Tanaka, A. Ikeda, A. Tarui, K. Sato, A. Ando, *J. Org. Chem.* **2013**, *78*, 6196.
  - 3) A. Ikeda, M. Omote, S. Nomura, M. Tanaka, A. Tarui, K. Sato, A. Ando, *Beilstein J. Org. Chem.* **2013**, *9*, 2417.
  - 4) A. Ikeda, M. Omote, K. Kusumoto, A. Tarui, K. Sato, A. Ando, *Org. Biomol. Chem.* **2015**, *13*, 8886.

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fluorination

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