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## Novel synthesis of perfluoroalkylated pyrrolo[2,1-a]isoquinolines via a DIPEA-promoted one-pot process

Pyrrolo[2,1-a]isoquinoline derivatives is a kind of compound with good fluorescence properties and also a kind of very important alkaloids having good biological activities. Therefore, the synthetic methodologies for constructing these compounds are highly demanded. DIPEA-promoted one-pot two-step three-component reaction for the synthesis of pyrrolo[2,1-a]isoquinoline has been achieved. In this paper, a series of perfluoroalkylated pyrrolo[2,1-a]isoquinoline derivatives (4) were synthesized by the reaction of isoquinolines (1), bromomethyl ketones (2) and methyl perfluoroalk-2-ynoates (3) in the presence of DIPEA (Scheme 1). This procedure is compatible with a broad range of functional groups in both pyridines and bromomethyl ketones with moderate to good yields.



## Biography

Wei Zhou is currently enrolled in the Chemistry Department of Shanghai University as a MS student majoring in Organic Chemistry under the guidance of Professor Weiguo Cao. The group is committed to the synthesis of a series of perfluoroalkylated compounds. She published an article in the RSC Adv. and another in J. Org. Chem.

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