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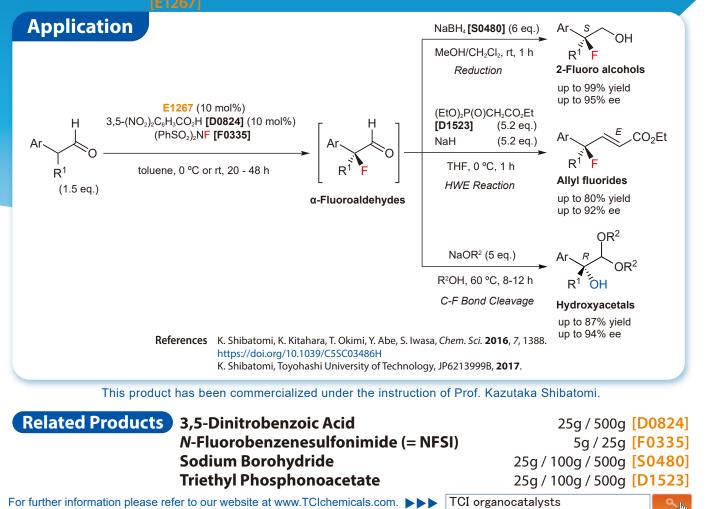
Chiral Amine Catalyzing Enantioselective Fluorination of a-Branched Aldehydes



Ethyl (11bR)-4-Amino-2,6-bis(3,5-di-*tert*-butylphenyl)-4,5-dihydro-3*H*-cyclohepta[1,2-*a*:7,6-*a*']dinaphthalene-4-carboxylate 50mg

Advantages

- Catalyzes the asymmetric fluorination of α-branched aldehydes using *N*-fluorobenzenesulfonimide (NFSI) as a fluorine source.
- The generated chiral tertiary fluorides can be converted into various optically-active compounds.



Chiral Amine Catalyzing Enantioselective Fluorination of a-Branched Aldehydes Introduction of the Researcher

Shibatomi Laboratory Department of Environmental and Life Sciences, Toyohashi University of Technology



The members of the Shibatomi laboratory with Assoc. Prof. Kazutaka Shibatomi on the far left

Research Description

The Shibatomi group aims to develop the new synthetic methods of organic molecules, especially focusing on design and synthesis of novel chiral catalysts and their application to the asymmetric reactions. The Shibatomi group is also developing the efficient synthetic method for chiral pharmaceutical and agricultural compounds with the above-mentioned chiral catalysis. Recently, the Shibatomi group found highly enantioselective halogenation of carbonyl compounds and applied this method for the synthesis of a GPR119 agonist which is a potential drug for type 2 diabetes.

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