

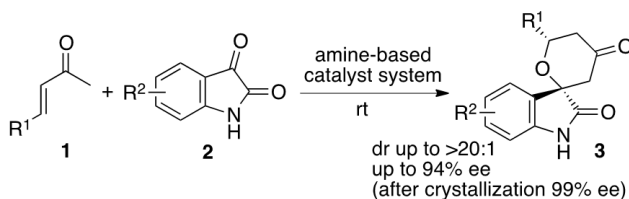
Synthesis of Novel Pharmaceutical Synthons

The Problem

Synthesis of novel spirooxindole derivatives useful for searching for and developing bioactive/bio-functional molecules. Spirooxindoles are widely found in bioactive molecules and their synthetic intermediates.

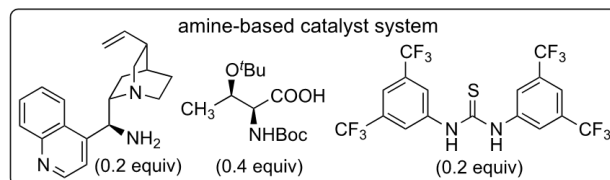
The Solution

This technology provides a method to concisely and stereoselectively synthesize novel spirooxindole derivatives from easily accessible starting materials under mild conditions.



Applications

- Pharmaceutical compound synthons
- Diagnostic compounds
- Probe molecules for investigating bio-functions



Benefits

- Synthesis of novel oxa-spirooxindole derivatives
- Asymmetric synthesis of spirooxindole derivatives with functional groups
- Transformation of the synthesized spirooxindole derivatives can further provide new products

Stage of Development

Compound samples for bioassay are available on negotiation.

Opportunity

OIST is seeking industrial partners interested in licensing or developing this technology, including:

- companies interested in using this technology to prepare compounds, compound libraries, research agents, etc.
- companies interested in using the compounds described in this technology to develop new pharmaceuticals, bioactive molecules, and bio-functional molecules
- companies interested in using this technology for further research

Publication

Cui, H.-L.; Tanaka, F. *Chem. Eur. J.* **2013**, *19*, 6213-6216.

Patent protection

This technology has entered the National Phase:

US14/431,935, EP13846040.7, CN201380051394.7, IN646/KOLNP/2015, JP2015-517510

For more information

Business Development Section/Technology Licensing Section

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