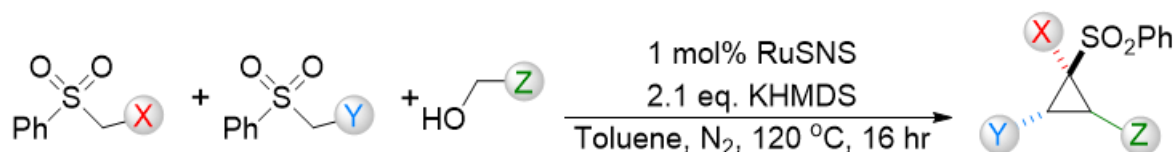


Sulfone-substituted Cyclopropanes and Their One-step Synthesis



Applications

- Drug screening
- Drug design

Problem & Solution

The cyclopropane motif is present in a variety of bioactive natural products and medicinally important molecules. However, normally, the synthesis of cyclopropanes needs multiple steps, resulting in lower yields with a greater amount of waste. Especially, sulfone substituted cyclopropanes are difficult to synthesize and almost not commercially available.

The current invention enables the synthesis of sulfonated cyclopropanes in one step with good yields. Furthermore, this technology can control the placement of substituents on the cyclopropane.

Benefits

- 3-component reaction in 1-step
- High diastereoselectivity
- Simple and cheap starting materials (Alcohol, Ester)

Keywords

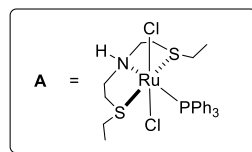
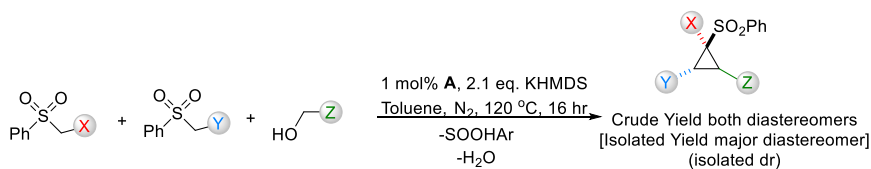
Cyclopropanation, Ru(II) complex,

Patent pending

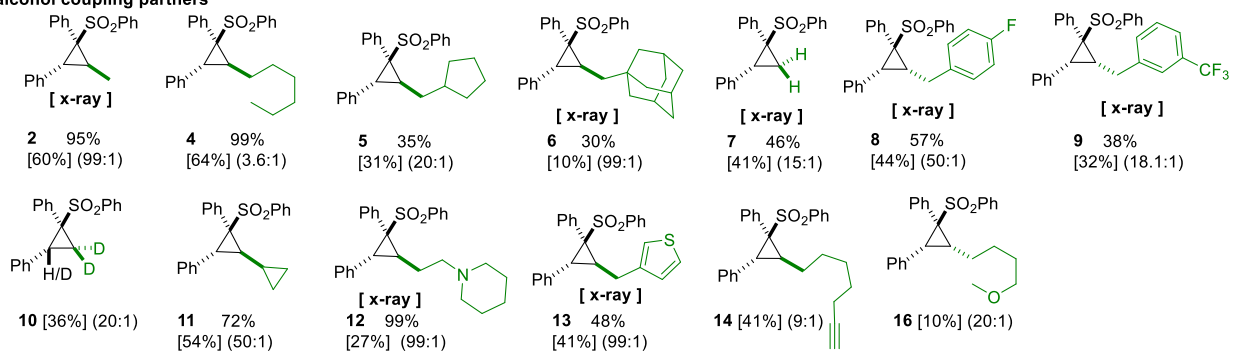
For more information

Business Development Section/Technology Licensing Section

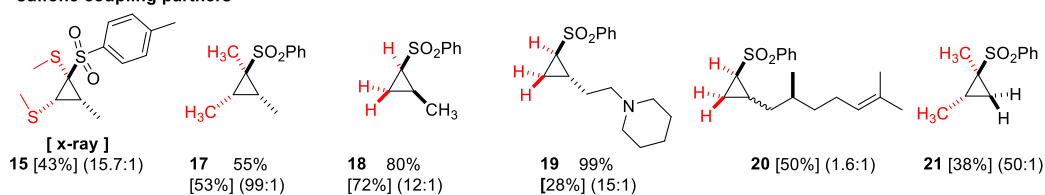
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alcohol coupling partners



sulfone coupling partners



mixed sulfone coupling partners

