???-Catalyzed Reaction of Enals with Hydroxy Chalcones: Diastereoselective Synthesis of Functionalized Coumarins

Problem:

- 1. What class does the catalyst belong to?
- 2. Provide a mechanism for the cyclisation

Solution:

NHC catalyst

Proposed reaction mechanism:

References:

- A. Bhunia, A. Patra, V.G. Puranik, A.T. Biju Org. Lett. 2013, 15, 1756

Keywords:

Diastereoselective NHC-catalysis; synthesis of coumarins