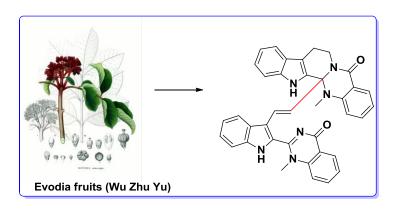
Total synthesis of (±)-Dievodiamine Harsha Vardhan Reddy KASIREDDY

Harsha Vardhan Reddy KASIREDDY Post doctorant, Équipe D3-1



Chimie thérapeutique

Collaboration with Indian Institute of Chemical Technology (IICT), Hyderabad, INDIA.

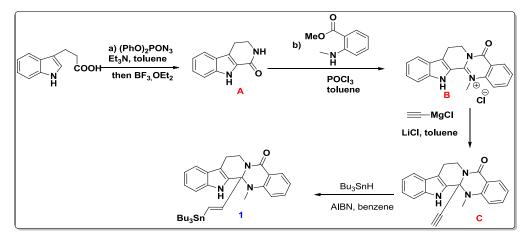


Dievodiamine was recently isolated from Evodia rutaecarpa. Evodia rutaecarpa is an original plant of several crude drugs. The Evodia fruits (Wu Zhu Yu) have been used in traditional Chinese prescriptions for the treatment of headache, abdominal pain, migraine, chill limbs, postpartum hemorrhage, dysmenorrhea, diarrhea, nausea, hyperbaropathy, antinociception, anti- inflammatory and anticancer.

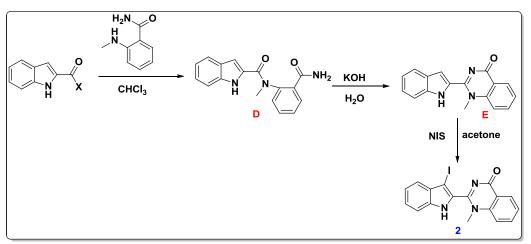
Regarding Dievodiamine synthesis I am asking questions (1-4):

- 1. Find the products 1 and 2?
- 2. Find each intermediates from A to E

Synthesis of compound 1

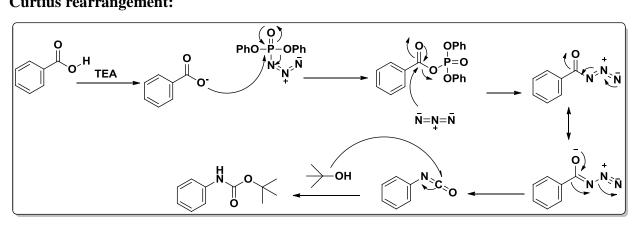


Synthesis of compound 2



3. Find the name and the mechanism for the formation of A?

Curtius rearrangement:



4. Find the coupling reaction name and mechanism?

