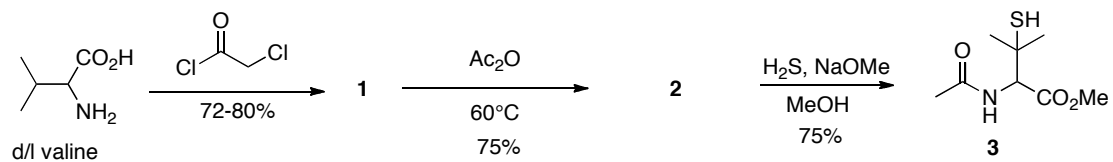


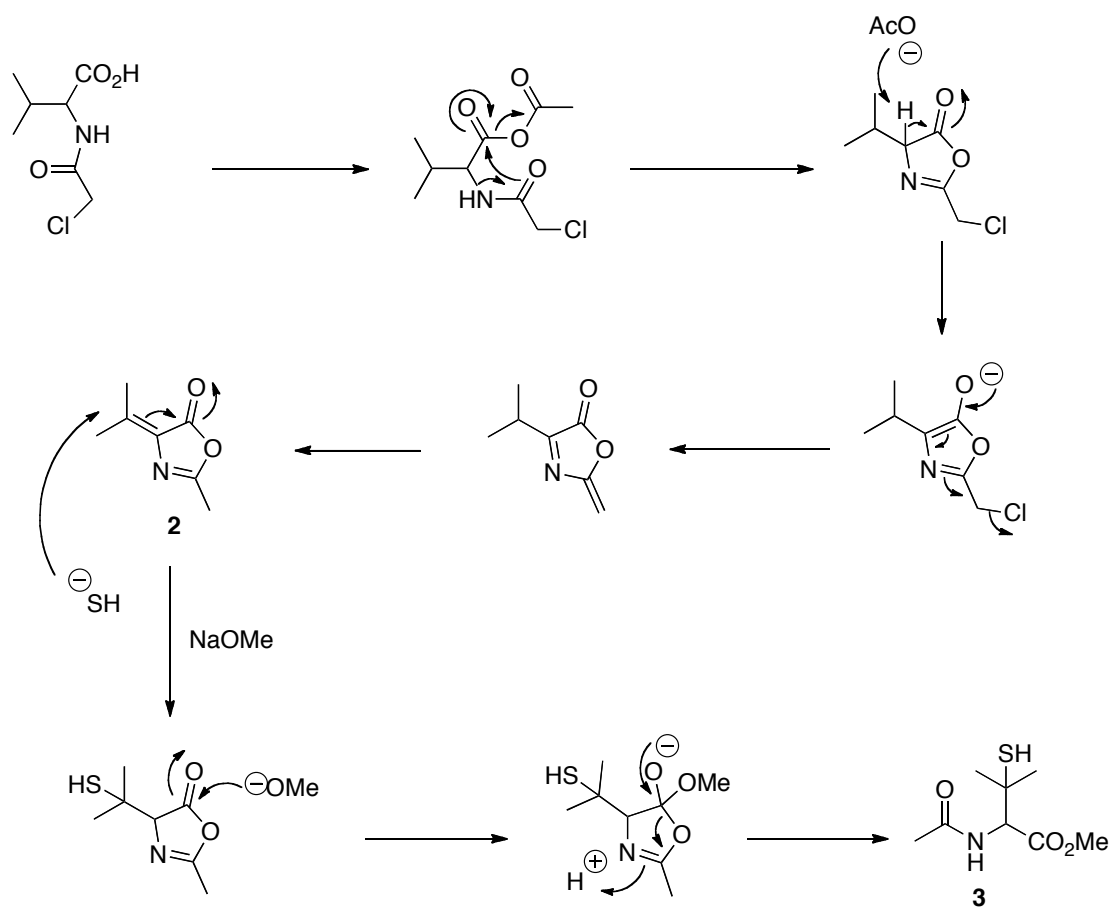
## The Total Synthesis of Penicilline V

*Problem:*



- Propose a structure for **1** and a mechanism to access **2**
- Propose a mechanism for the formation of **3**

Solution:



References: K.C. Nicolaou and E.J. Sorensen, *Classics in Total Synthesis*, Wiley-VCH, 1996, pp 41-53

Keywords: "Push the arrows"

