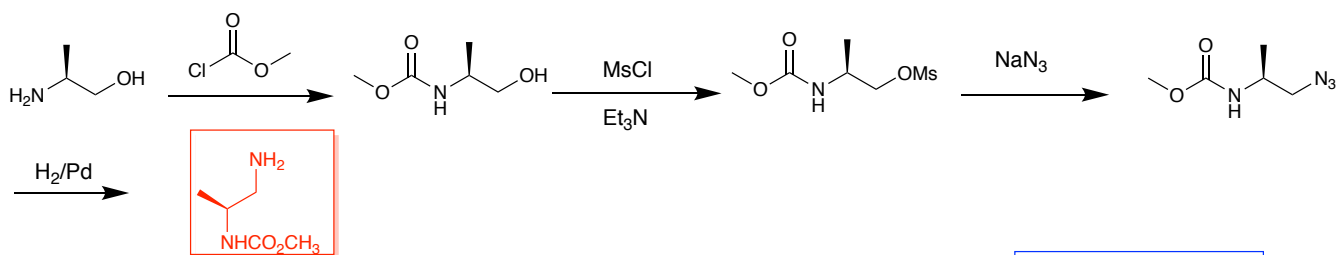
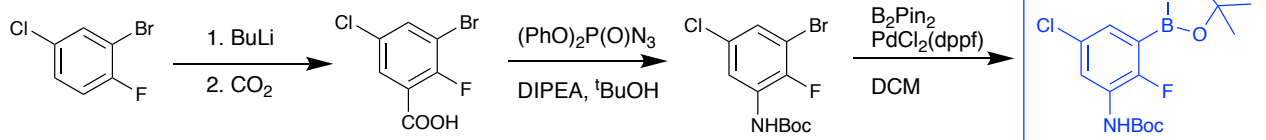


1. Synthesis of Encorafenib: please propose mechanism for each step.

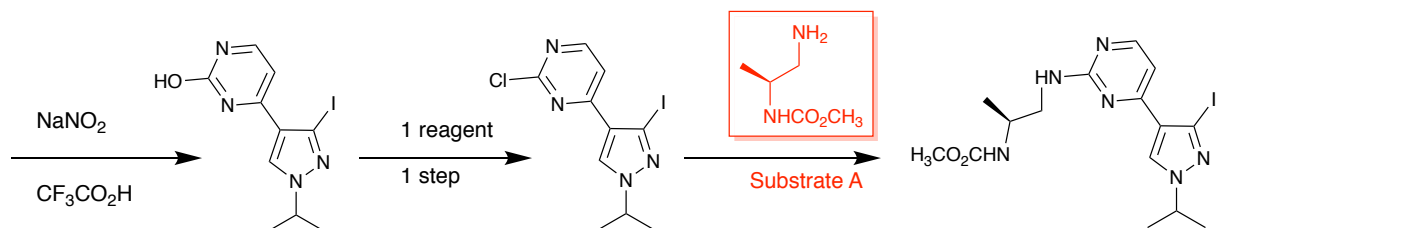
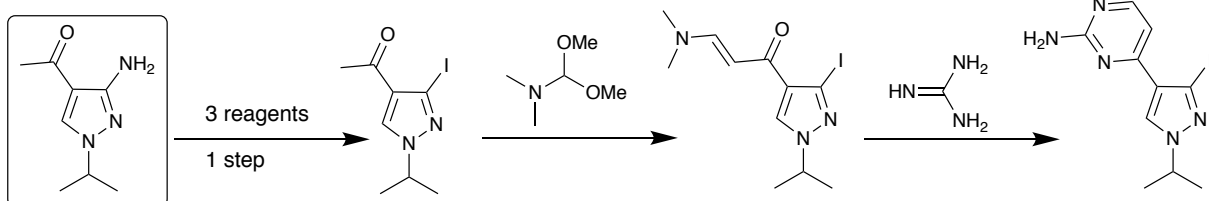


Substrate A

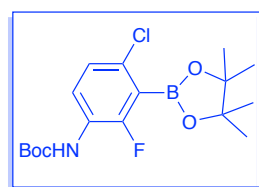


Substrate B

How to make the starting material in 4 steps?

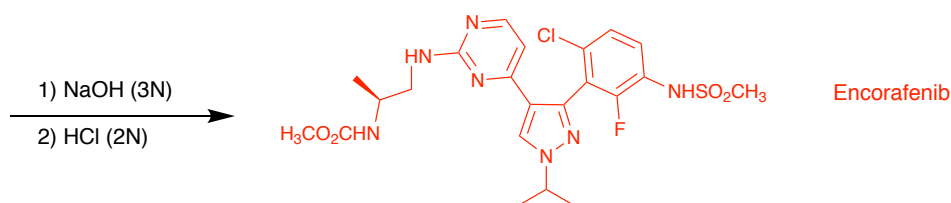
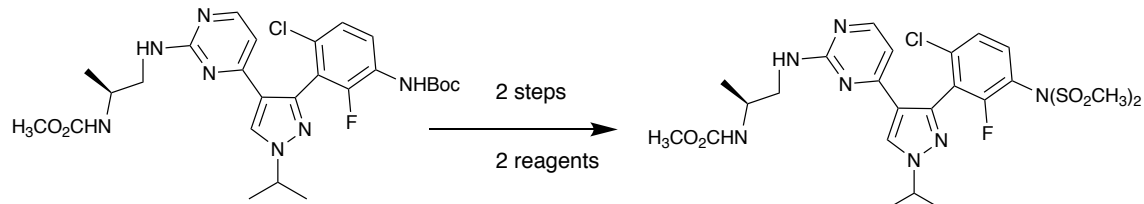


Substrate A



Substrate B

$\text{Pd(PPh}_3)_4$



Encorafenib

2. Synthesis of Larotrectinib: please propose mechanism for each step.

