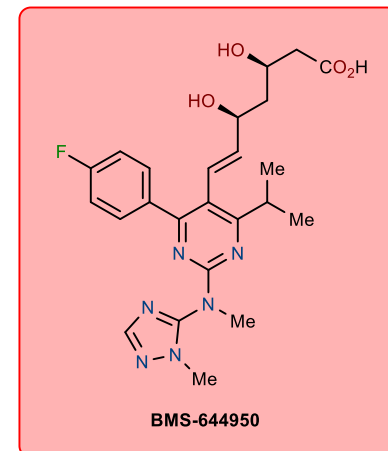
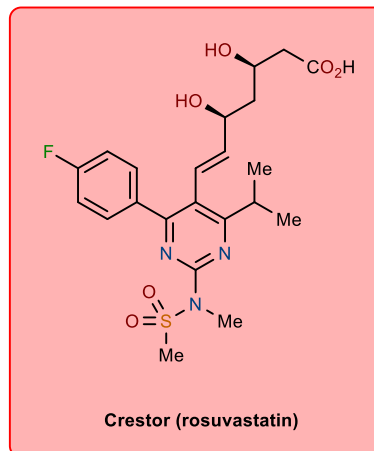
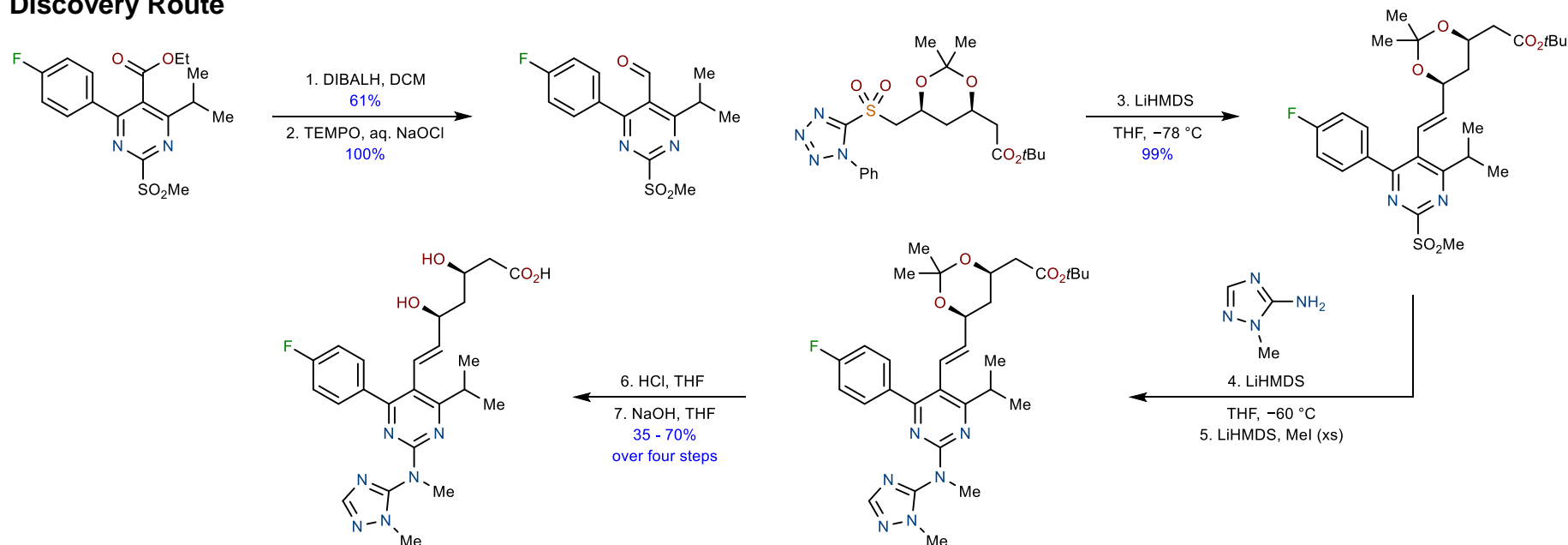


Background

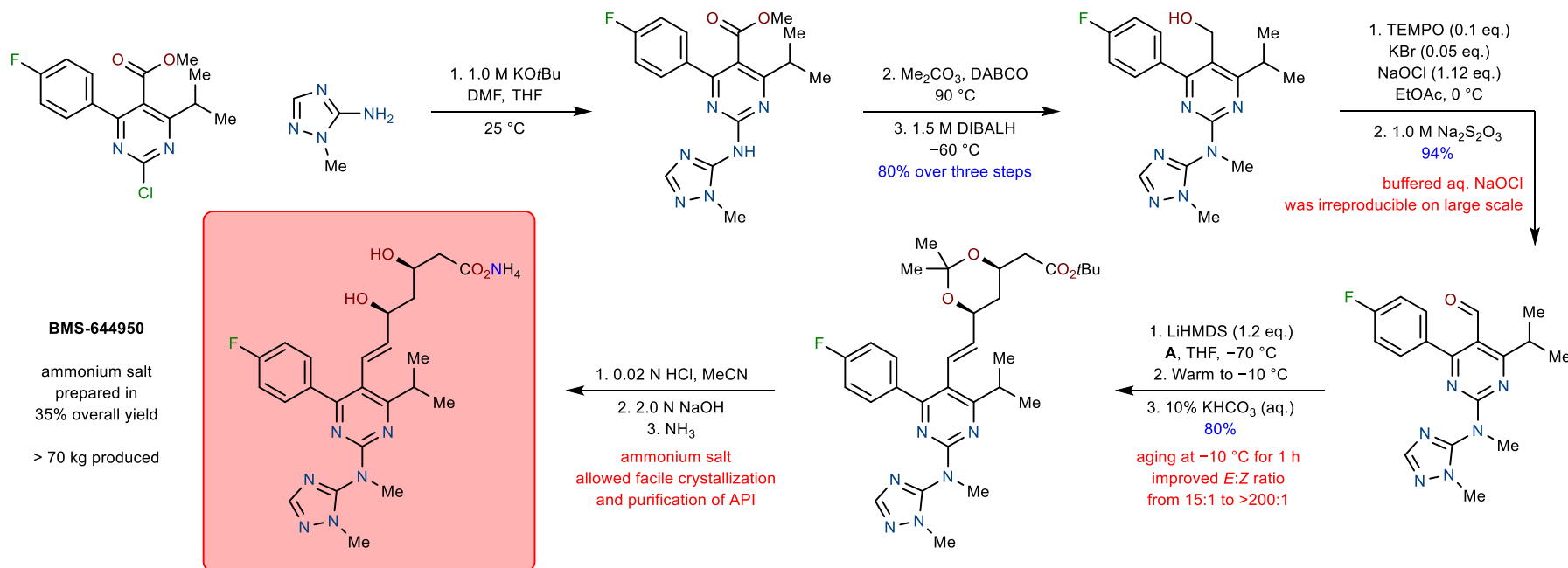
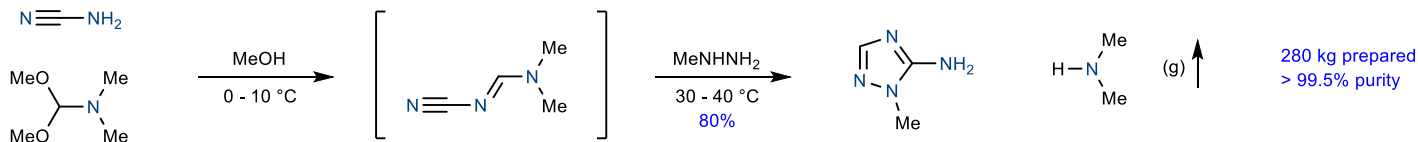
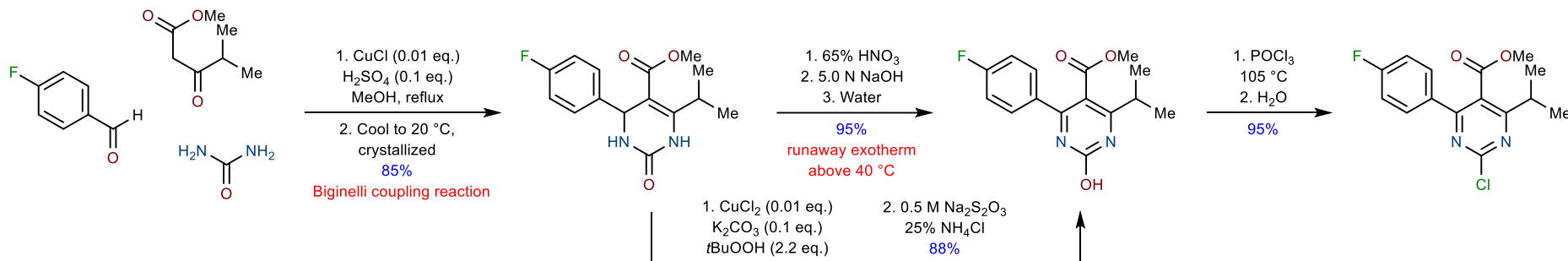
- Statins like Crestor (rosuvastatin) are some of the most highly-prescribed medicines in the United States
- Statins are used to help prevent coronary heart disease in at-risk individuals
- They interfere with cholesterol biosynthesis by inhibiting HMG-CoA reductase, and thus lowering blood cholesterol levels
- However, commercial statins have been linked to increased risk of diabetes and in some cases rhabdomyolysis (muscle breakdown that can damage the heart and kidneys)
- The BMS Discovery Chemistry group identified BMS-644950 as a promising candidate for a next-generation statin that may have a superior safety profile



Discovery Route



Process Scale Route



BMS-644950

ammonium salt
prepared in
35% overall yield

> 70 kg produced