1. Draw the mechanism for the following reaction

\[
\text{\begin{align*}
\text{Acetonitrile} & \quad \text{LiAlH}_4 \\
\text{NH}_2 & \quad \text{H}_2\text{O}
\end{align*}}
\]

2. Determine the product with the provided starting material and reagents

\[
\text{\begin{align*}
\text{MgBr} & \quad \text{CO}_2 \\
\text{NH}_2 & \quad \text{HCl}
\end{align*}}
\]

\[
\text{\begin{align*}
\text{Ketoester} & \quad \text{LiAlH}_4 \\
\text{NH}_2 & \quad \text{H}_2\text{O}
\end{align*}}
\]
3. Determine what reagents must be used to produce the product

4. Determine the product with the given reagents

5. Identify the structure of the compound (molecular formula C₉H₁₀O) from the ¹H NMR & ¹³C NMR