

Understanding Enzyme Kinetics

- Define the following terms:
 - the difference between k and K (generally)
 - K_m
 - k_{cat}
 - k_{cat}/K_m
 - the diffusion limit
- From a thermodynamic perspective, what are the two components of ΔG ?
- What is the difference between ΔG and ΔG^\ddagger ?

The following graphs are the type that are typically produced in an enzyme kinetic study.

- Label the axes of each graph (6 places).
- Annotate each graph with any special points or lines that are important to the use and understanding of the graphs.
- Give the order in which one would create the graphs: _____

