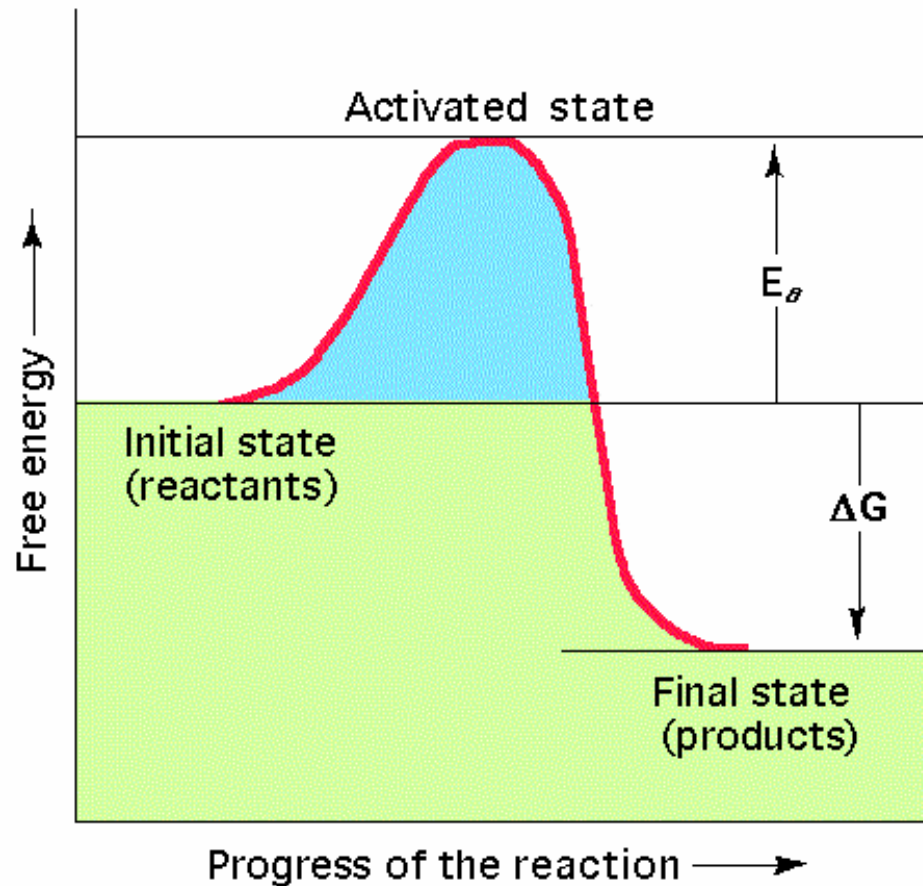
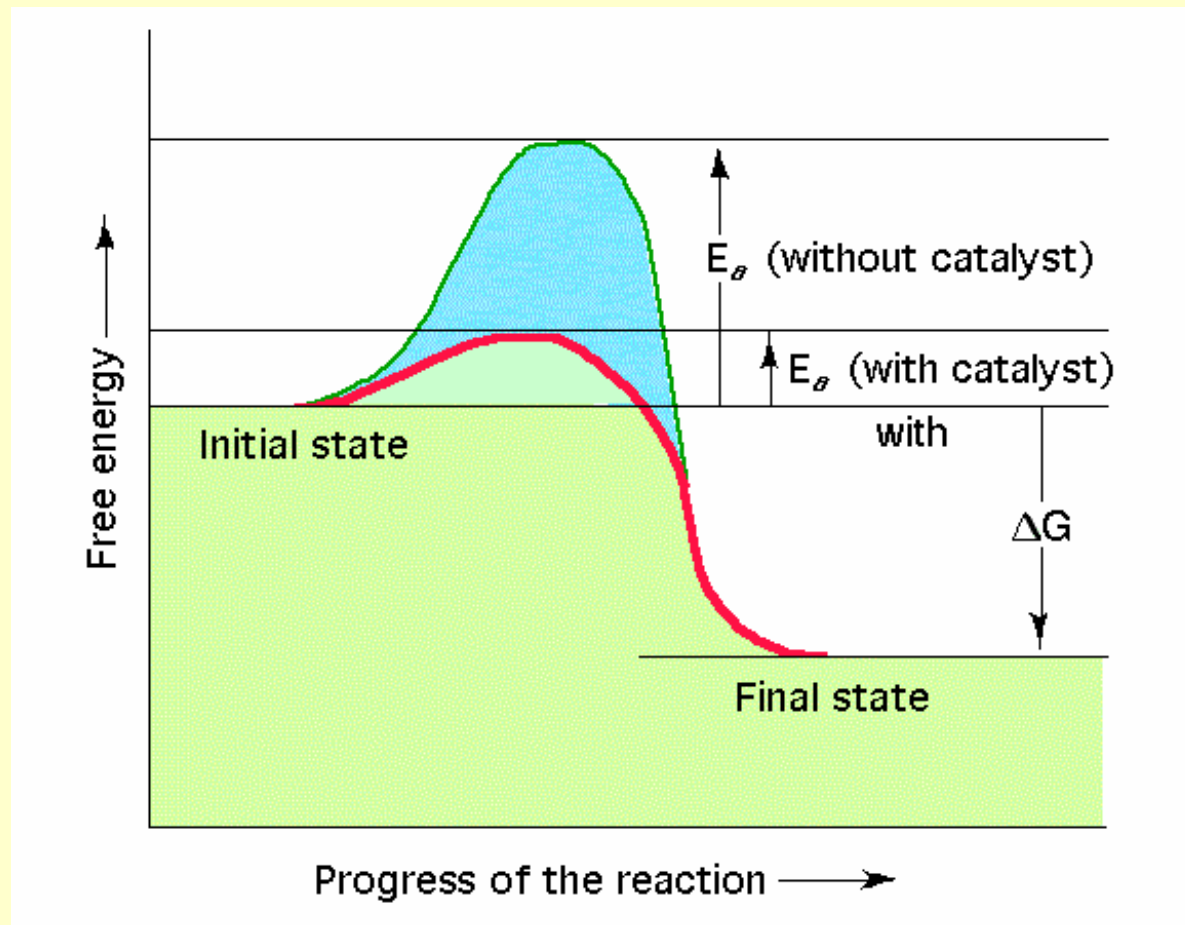


ENZYMES

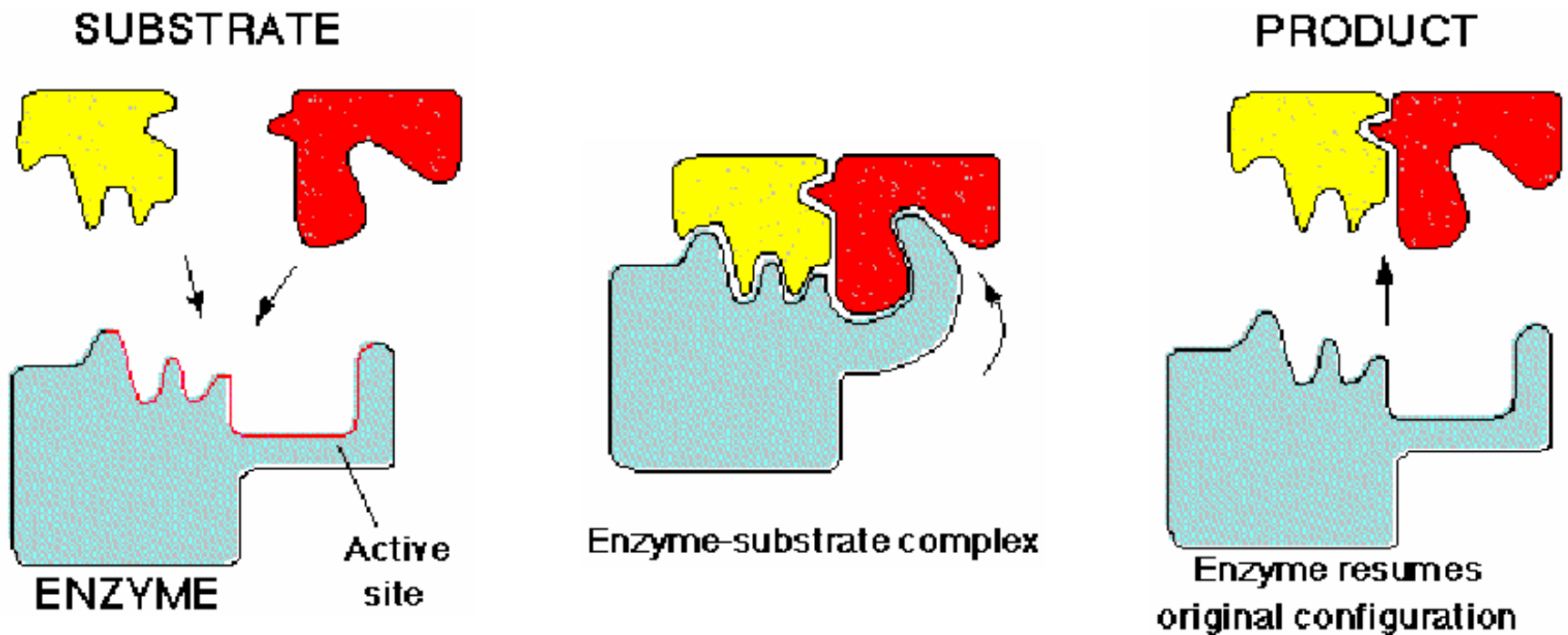
Energy Changes in a Chemical Reaction



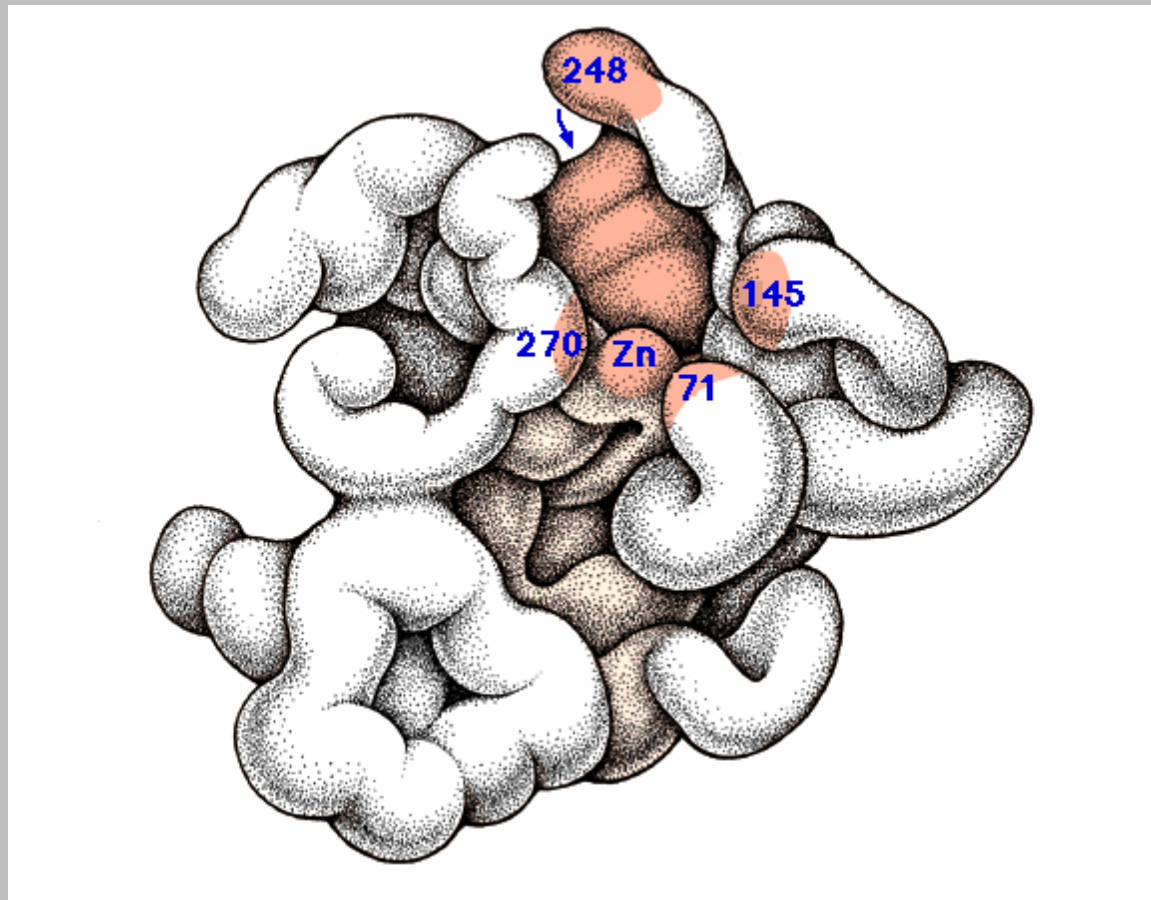
Using a Catalyst



Enzyme Action



The Active Site in an Enzyme



Enzymes – A Special Class of Proteins

- Some proteins act as **biological catalysts** – change the rate of chemical reactions.
- Enzyme reactions depend upon a physical fit between enzyme molecule and its **substrate**, the reactant being catalyzed.
- Enzymes work using a “**lock and key**” **model**.
- The **enzyme (key)** remains unchanged while the **substrate (lock)** undergoes a change in status.

Enzymes at Work

