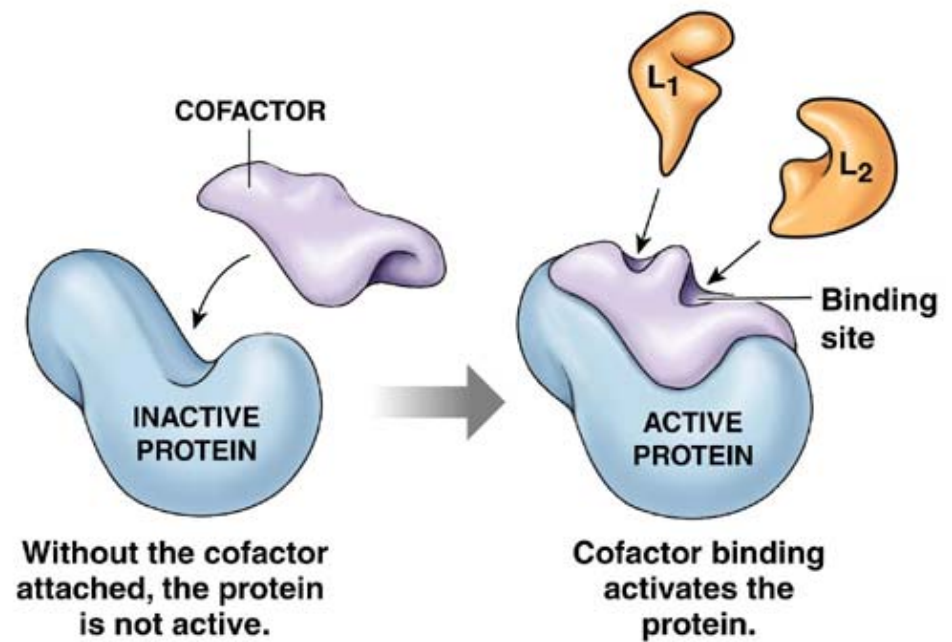


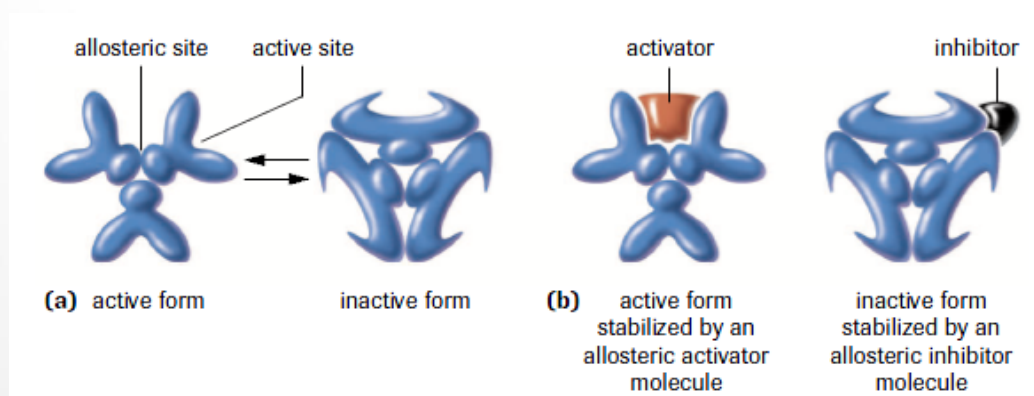
Enzyme Cofactors

- **Activate enzyme/protein**
- Needed for some enzymes to function
 - ie. Metal ions: Ca^{2+} , Zn^{2+} , Cu^{2+}
- **Coenzyme** - organic cofactors
 - Transfer energy in the form of electrons
 - ex. Vitamins, NAD^+



Allosteric Regulation

- Cells control enzyme activity to coordinate cellular activities
- A substance binds to an **allosteric site**, causing a conformational change.
 - **Allosteric Activators:**
 - Stabilize the active form of the enzyme.
 - **Allosteric Inhibitors:**
 - Stabilize the inactive form of the enzyme.
 - Known as a “**non-competitive inhibitor**”.



Feedback Inhibition

