

cooperativity

Interaction between the substrate binding sites of an allosteric enzyme. Binding of a substrate molecule to one binding site changes the affinity of the binding sites on the other subunits (cf. allosteric enzymes) to the substrate by induction of a conformation change at the other binding sites. Cooperative enzymes typically display a sigmoid (S-shaped) plot of the reaction rate against substrate concentration.

Source:

PAC, 1992, 64, 143 (*Glossary for chemists of terms used in biotechnology (IUPAC Recommendations 1992)*) on page 151