

General Organic Biochemistry ACS final exam

methods organisms use to regulate enzyme activity - Answer- -Zymogens (proenzyme)- to free active form

-produce enzyme only when substrate is present-common in bacteria

-allosteric enzymes-activate/deactivate

-feedback inhibition

-protein modification, usually phosphorylation, to reversibly activate or deactivate enzyme

oxidation - Answer- gain in oxygen, oxygen bonds, loss of H, loss of e

reduction - Answer- loss of oxygen, oxygen bonds, gain H, gain e

ATP - Answer- adenosine triphosphate- (coenzyme) transports chemical energy within cells for metabolism. This is not a redox coenzyme. ATP is continuously cycling to ADP and back to ATP

Acyl Carrier Protein - Answer- expressed as an inactive apo-enzyme and must be activated by its prosthetic group 4' phosphopantetheine. This forms a phosphate ester bond with the -OH on a serine in the apoenzyme. The SH group attached to the Acyl function be transferred.

Prosthetic Group - Answer- a coenzyme which is tightly bound to an apoenzyme and which is not consumed by the reaction. May be covalently bonded

Coenzyme - Answer- cofactor which is released from the active site after use and usually reformed and rebound for the next use. Required by some enzymes.

holoenzyme - Answer- Apoenzyme + attached Cofactors

Zymogen - Answer- proenzyme, precursor to an enzyme

Apoenzyme - Answer- protein portion of multi component enzyme which requires a cofactor

Cofactor - Answer- non protein component required by some enzymes for activity. Can be organic compounds, metallo-organic like heme, or metal ions like Cu^{+2}

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focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

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