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Chapter 11

1 message

Google Forms <nobody@google.com>
To: grossoehmen2@mailbox.winthrop.edu

Thu, Oct 6, 2016 at 10:44 AM

Thanks for filling out Chapter 11

Here's what we got from you:

EDIT RESPONSE

Chapter 11

Match the enzyme class (column) with the type of reaction catalyzed (rows)

	1	2	3	4	5	6
Ligase						0
Lyase				•		
Hydrolase			(0)			
Isomerase					•	
Oxidoreductase	•					
Transferase		0				

Enzymes commonly contain a regulatory mechanism. Which of the following is not an example of one of these mechanisms?

- Enzyme concentration regulation
- Covalent modification
- Amino acid mutation

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Allostery
Enzymes are sensitive to stereochemistry.
True
False
Which of the following does not accurately describe Heme groups in enzymes?
cofactor
prosthetic group
cosubstrate
coenzyme
Briefly describe how enzymes are able to catalyze chemical reactions.
They present a specific binding pocket so that they only bind to a single substrate. Upon binding, they encourage the reaction by making the activation steps easier (e.g. presenting a good nucleophile). Finally, they make the transition state more accessible by lowering the energy through some form of stabilization.
Keto-enol tautomerization is an example of which type of catalytic mechanism?
Acid-Base
Metal ion
Proximity and orientation effects
Preferential binding of transition state
Covalent
Proline isomerization is an example of which type of catalytic mechanism?
Metal ion
Preferential binding of transition state
Covalent
Acid-Base
Proximity and orientation effects

Catalytic triads use which amino acid as a neuclophile

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serine

Please answer problem 7 at the end of Chapter 11.

87.6 kJ/mol

Create your own Google Form $\Delta\Delta G = 87,566 = 87.6 \text{ kT}$