

Act 4.1: ATP—The free energy carrier 4/21/23

Total: 75

points

How does the ATP molecule capture, store, and release energy?

Why?

A sporting goods store might accept a \$100 bill for the purchase of a bicycle, but the corner store will not take a \$100 bill when you buy a package of gum. That is why people often carry smaller denominations in their wallets—it makes everyday transactions easier. The same concept is true for the energy transactions in cells. Cells need energy (their "currency") to take care of everyday functions, and they need it in many denominations. As humans we eat food for energy, but food molecules provide too much energy for our cells to use all at once. For quick cellular transactions, your cells store energy in the small molecule of ATP. This is analogous to a \$1 bill for your cells' daily activities.

Each question: 5 points

Model 1 – Adenosine Triphosphate (ATP)



1. The diagram of ATP in Model 1 has three parts. Use your knowledge of biomolecules to label the molecule with an "adenine" section, a "ribose sugar" section, and a "phosphate groups" section.

2. Refer to Model 1.

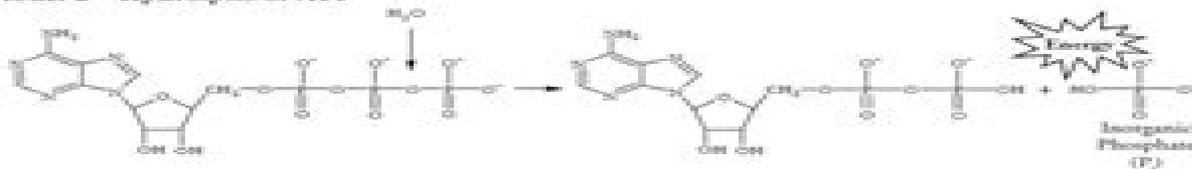
a. What is meant by the "tri-" in the name adenosine triphosphate?

- three phosphates.

b. Discuss with your group what the structure of adenosine diphosphate (ADP) might look like. Draw or describe your conclusions.

- It is the same as ATP but just with 2 phosphates.

Model 2 – Hydrolysis of ATP



3. Model 2 illustrates a chemical reaction. Write the reaction as an equation, using the name or abbreviation of each of the two reactants and each of the three products.

- $ATP + H_2O \rightarrow ADP + P_i + \text{energy}$.

4. Consider the structural formulas of ATP, ADP, and phosphate in Model 2 carefully. What happens to the atoms from the water molecule during the hydrolysis of ATP?

- Water is fit into the ADP molecule and in the formation of inorganic phosphate.

Atp Pogil Answers

ML Morrison



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