

ATP—The Free Energy Carrier

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.

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.

See Model 1.

2. Refer to Model 1.

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

Tri- means "three" and refers to the three phosphate groups in the molecule.

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

Answers may vary. Drawings should illustrate the lack of a third phosphate group, but students are not expected to know exactly where the break occurs (i.e., is the oxygen included in ADP or does it go with the phosphate).



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