

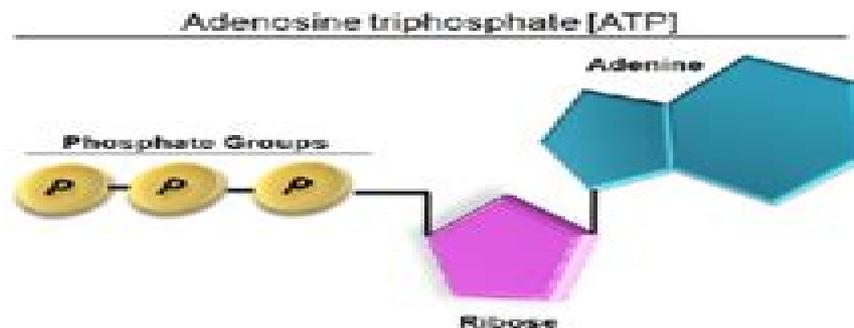
Introduction to Cellular Energy and ATP

Read the following:

Adenosine Triphosphate or **ATP** for short is a high-energy molecule that living things use to power all of their cellular functions. You can think of ATP almost like "energy currency". Cells continuously invest a small amount of energy to build ATP molecules. This investment is returned when the cell breaks down the ATP molecules, and large amounts of energy are released.

Another analogy for how ATP works in the cell is like going to an arcade. The goal at the arcade is to win a lot of prizes. When you arrive at the arcade, you have money, but you can't use that money in the games, you have to exchange it for tokens. In this example your money is food you eat, and the tokens are ATP. You then play the games with those tokens to ultimately win tickets and prizes. The tickets and prizes in a cell would be the building blocks of proteins, RNA, DNA, and other macromolecules.

The picture below shows a simplified picture of the structure of ATP. Use this picture to answer the questions that follow.



1. Adenosine Triphosphate, ATP is an example of a nucleic acid, however it contains parts of other biological molecules we have previously discussed. One of the parts of ATP is Ribose. What type of biological molecule do you think Ribose is?

_____ RNA _____

2. Attached to the ribose sugar is a molecule called Adenine, which we will discuss later in the year when we learn about DNA structure. Also attached to the ribose sugar is 3 _____ phosphate _____ groups.

3. Now that you have an understanding of the molecular structure of ATP, why does the name "Adenosine Triphosphate" make sense? _____ Adenosine combines adenine and ribose and triphosphate makes sense because there are 3 phosphate groups _____

Atp Pogil Answers

Liyong Dong



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