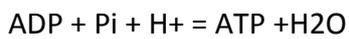


## Answer on Question #57450 - Biology - Biochemistry

### Question:

What is meant by inorganic phosphate is it just  $\text{PO}_4^{2-}$  ion or  $\text{H}_3\text{PO}_4$ ?

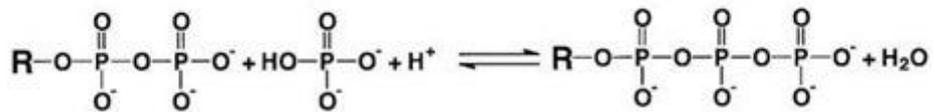
How is the following equation balanced structurally?



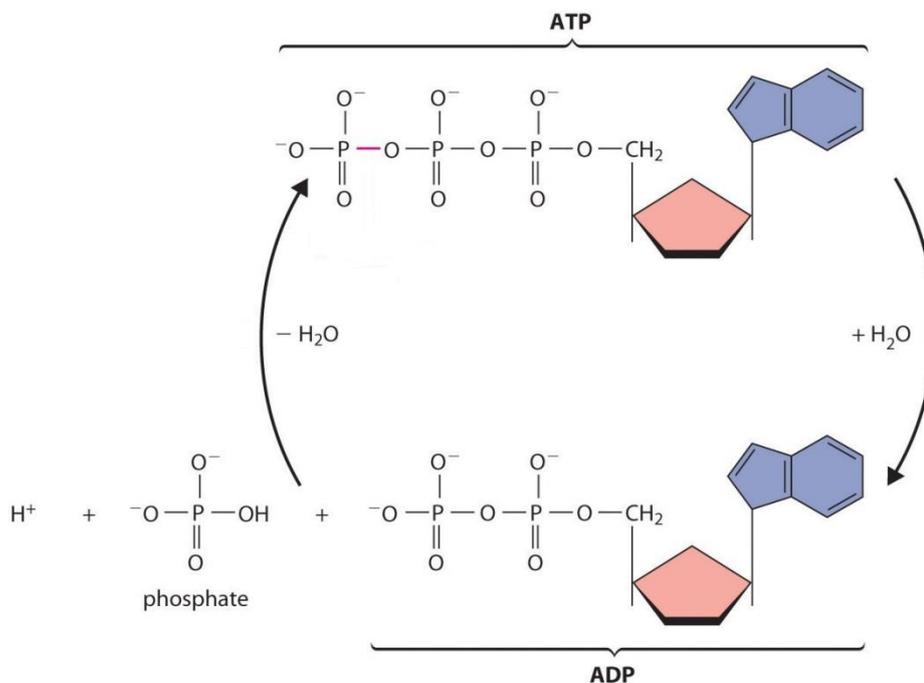
### Answer:

In biological systems, phosphorus is found as a free phosphate ion in solution and is called inorganic phosphate (denoted  $\text{P}_i$ ). Inorganic phosphate at physiological pH primarily consists of a mixture of  $\text{HPO}_4^{2-}$  and  $\text{H}_2\text{PO}_4^-$  ions.

#### ADP to ATP



or



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