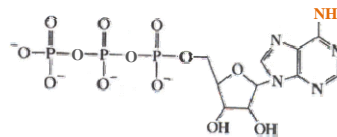


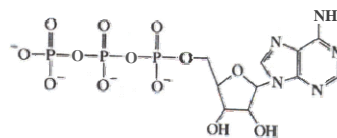
ATP as the energy currency of the cell

Adenosine triphosphate

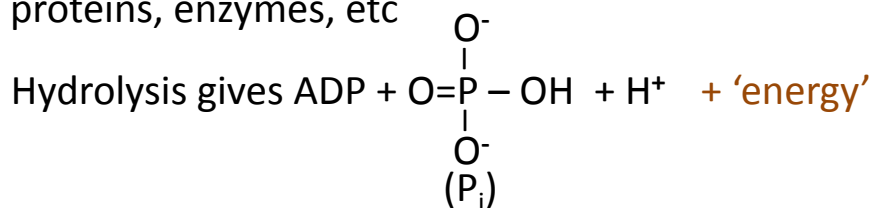


ATP as the energy currency of the cell

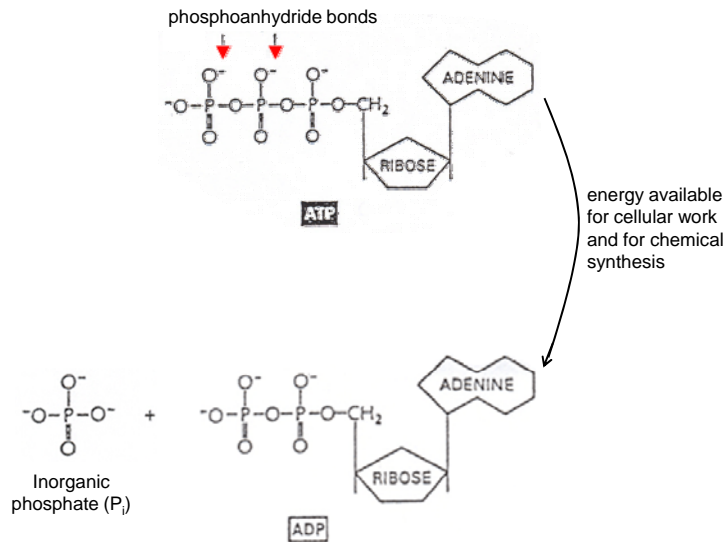
Adenosine triphosphate



- Chemically stable at pH 6-9
- Structural features recognised by specific proteins, enzymes, etc



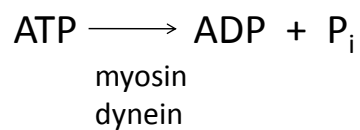
Breakdown of ATP to ADP



free energy of reaction is $31 - 50 \text{ kJ mole}^{-1}$

Functions of ATP

- Used directly in cell motility and contraction



- Used in Na^+ / K^+ pumps, active transport systems & metabolic control



Functions of ATP

- Used in metabolism to add P_i to metabolic intermediates

