One of the most important re triphosphate (ATP) to adenos	eactions in living cells is the splitting of adenosine sine diphosphate (ADP) and free phosphate (P _i):	
1	$ATP \implies ADP + P_i$	
Based on a standard state of 1^{-33} kJ mol ⁻¹ . Calculate the v temperature.	1 M, the value of ΔG° for this reaction at 37 °C is value of the equilibrium constant for the reaction at	this
1		
	Answer:	
The following concentrations	s are typical in a living cell.	
ATP: 5 mM	ADP: 0.1 mM P _i : 5 mM	
Jnder these conditions, calcu	ulate the energy per mole that is available from the	
plitting of ATP.		