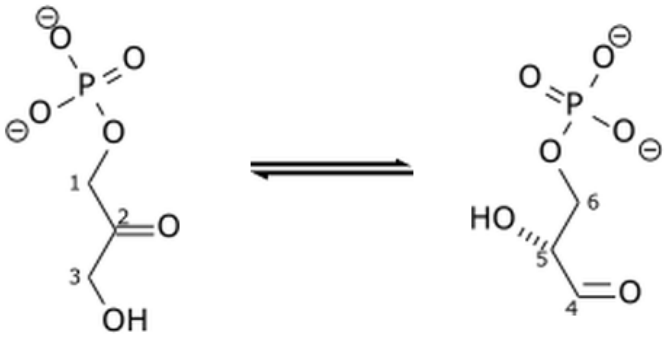
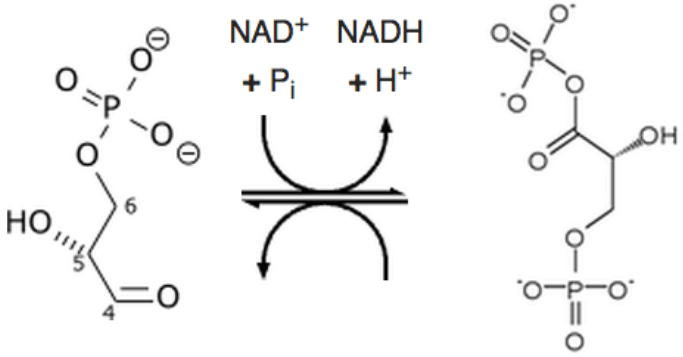
CONCEPT: GLYCOLYSIS

5. Triose phosphate isomerase (TIM) ($\Delta G'^{o}$ = 7.5 kJ/mol) DHAP → G3P

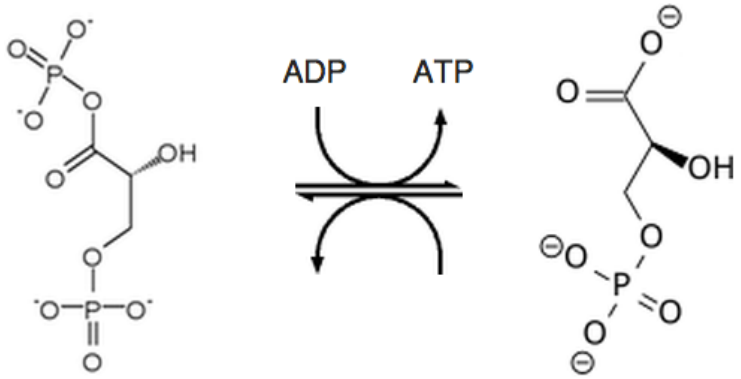


● Everything from this point on is doubled for 1 molecule of glucose

6. Glyceraldehyde 3-phosphate dehydrogenase ($\Delta G'^{o}$ = 6.3 kJ/mol) G3P + Pi + NAD^+ → 1,3-bisphosphoglycerate + NADH



7. 3-Phosphoglycerate kinase ($\Delta G'^{o}$ = -18.5 kJ/mol) 1,3-bisphosphoglycerate + ADP → 3-phosphoglycerate + ATP



8. 3-Phosphoglycerate mutase ($\Delta G'^{o}$ = 4.4 kJ/mol) 3-phosphoglycerate → 2-phosphoglycerate