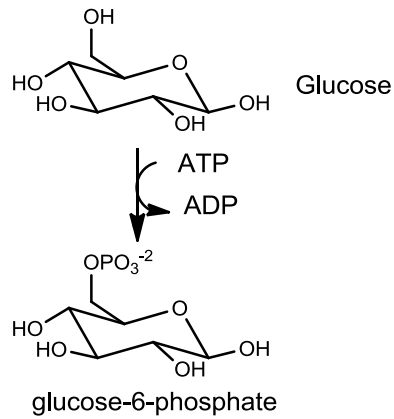
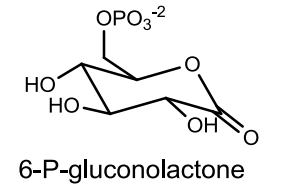


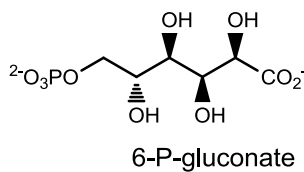
OXIDATIVE Phase



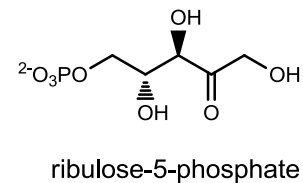
1. glucose-6-P dehydrogenase NADP⁺ → NADPH ↓ NADPH, Fatty acyl-CoA



2. 6-phosphogluconolactonase H₂O

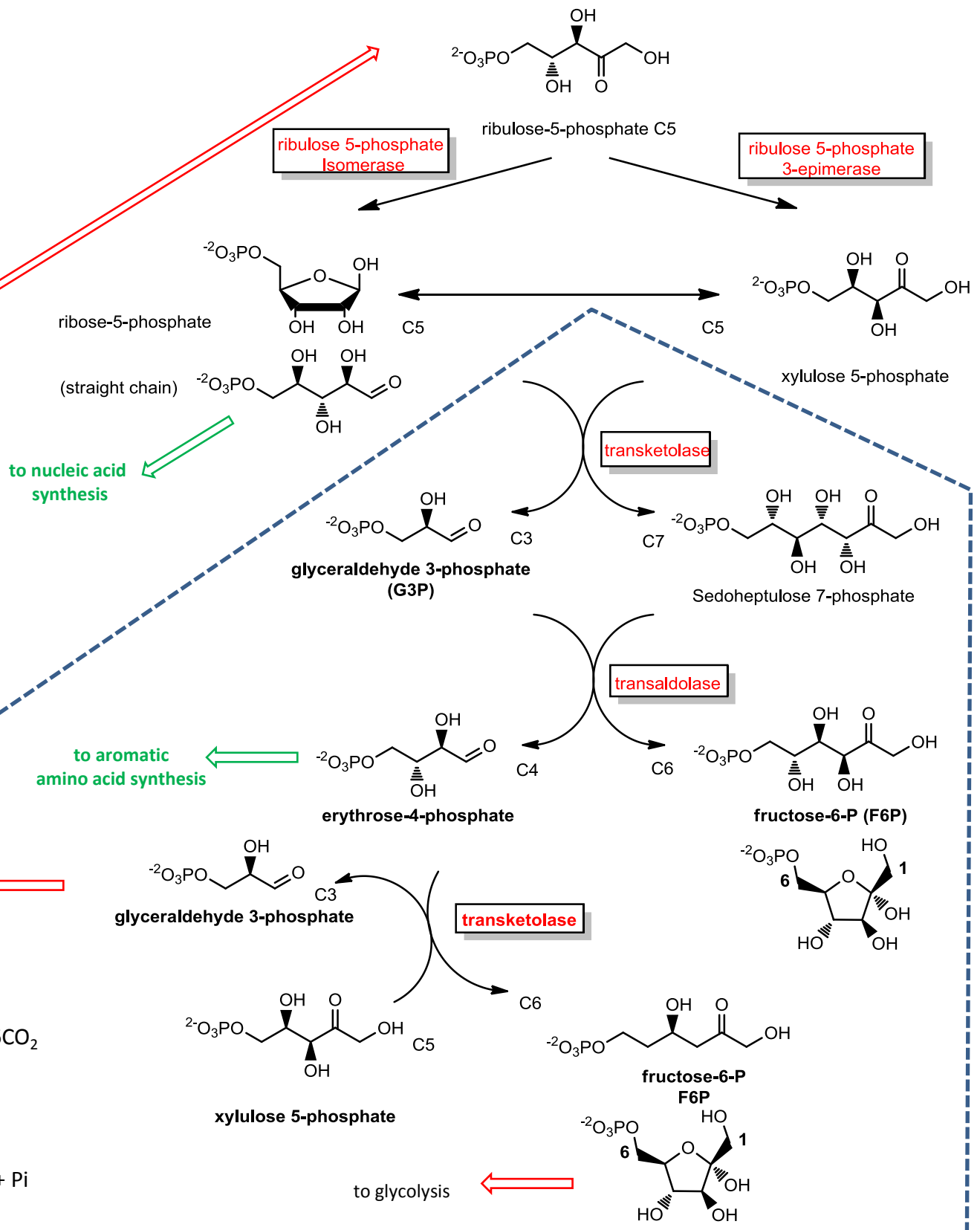


3. 6-phosphogluconate dehydrogenase NADP⁺ → NADPH + CO₂

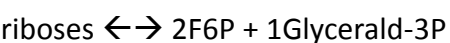
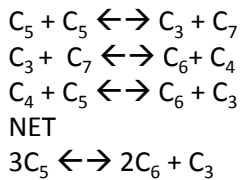


PENTOSE PHOSPHATE SHUNT

NONOXIDATIVE BRANCH



If more NADPH is required than ribose (for nucleic acid synthesis, this path is dominant



to glycolysis TAG synthesis

In this case, overall

