Regulation of Pentose Phosphate Pathway

- The entry of glucose-6-phosphate into the pentose phosphate pathway is controlled by the cellular concentration of NADPH.
- NADPH is a strong inhibitor of glucose 6-phosphate dehydrogenase.
- As NADPH is used in various pathways, inhibition is relieved, and the enzyme is accelerated to produce more NADPH.
- The synthesis of G6PD is induced by increased insulin/glucagon ratio after a high carb meal.