

N-acetylglucosamin-6-phosphate will be converted to GlcNAc-1-P by the enzyme mutase (phosphate-acetyl glucosamine mutase), followed by production of UDP-GlcNAc by (UDP-GlcNAc pyrophosphorylase). Finally, UDP-GlcNAc molecule will act as a glycoside precursor and serves as the nucleotide sugar for the posttranslational glycosylation of many proteins (Anderson *et al.* 2005; Ngoh *et al.* 2010) **(Figure 1.6)**