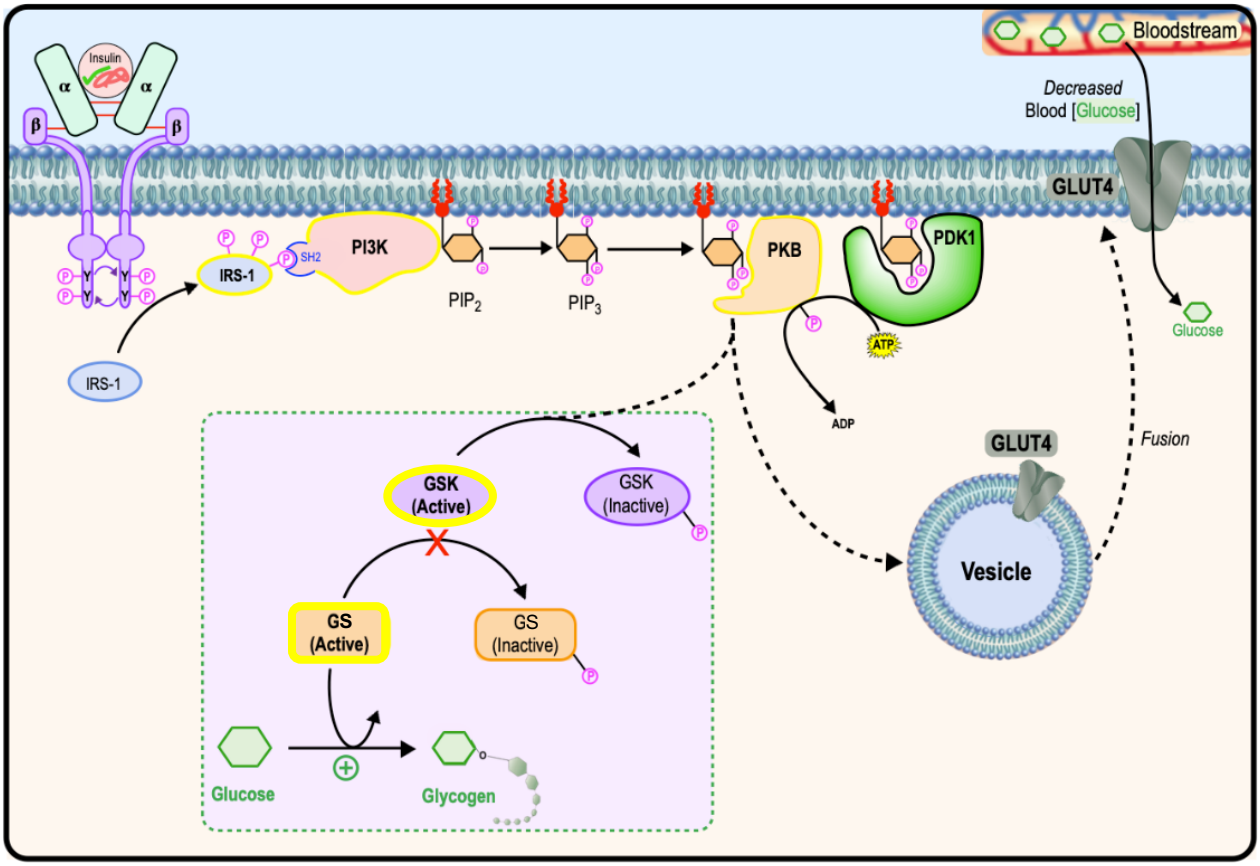
CONCEPT: RECAP OF INSULIN SIGNALING ON GLUCOSE METABOLISM



PRACTICE: What kinase phosphorylates IRS-1 in the insulin signaling pathway?

a) IRS-1 auto-phosphorylates itself.
b) PI3 Kinase.
c) PDK1.
d) The insulin receptor**.**
e) PKB.

PRACTICE: IRS-1 is an essential adaptor protein in the insulin signaling pathway. If IRS-1 was overexpressed in muscle cells, what effect would you expect to see on glycogen synthesis?

a) Protein kinase B would remain inactive, resulting in increased glycogen synthesis.
b) Protein kinase B would be overstimulated, resulting in increased glycogen synthesis.
c) Protein kinase B would remain inactive, resulting in decreased glycogen synthesis.
d) Protein kinase B would be overstimulated, resulting in decreased glycogen synthesis.