Bioconjugation of proteins increases their molecular size and steric hindrance.

**Advantage**

Prolongation of the plasma half-lives
1. Decrease in the renal excretion
2. Improve in the proteolytic stability
3. Decrease in the immunogenicity

**Disadvantage**

1. Loses bioactivity for modification of active site
2. Sterically inhibits receptor binding
3. Limits the transport from blood to tissues

: polyethylene glycol (PEG)