

Working with Proteins

- ▶ Always work as quickly as possible.
- ▶ Avoid that forming during the experiment - that contains approximately 0.05% cysteine (approximately 60 kDa).
- ▶ Avoid vigorous mixing and bubbling of protein solutions to minimize proteases.
- ▶ Always wear gloves to prevent contamination with other proteins such as bovine serum albumin.
- ▶ Never return unused material to the parent vial.
- ▶ Use a fresh pipette tip for each sample that has to be removed from the vial.
- ▶ Always keep the protein sample on ice during experiments.
- ▶ Perform after addition of 10 - 30% glycerol.
- ▶ Shock freezing of proteins in liquid nitrogen and long-term storage can be to be stored frozen in small bottles.
- ▶ Avoid repeated freezing and thawing of enzyme solutions. If the enzyme is to be stored frozen, avoid repeated freezing and thawing of enzyme solutions.
- ▶ Ice crystals can cause physical shearing and denaturation of proteins.
- ▶ Denaturation effect.
- ▶ Always (pH 7.5), freezing should be avoided because of the cold.
- ▶ For protein solutions in glycerol (20% v/v) or suspensions in ammonium

