In-solution digestion

<Notice!> Wearing cleaned gloves is needed, and manipulating in laminar flow cabinet is preferred.

Prepare reagents before use:

- ✓ 50 mM ammonium bicarbonate (ABC) solution (pH 8.5)
- ✓ 12.5 ng/µL trypsin stock

Procedure

- 1. Add 50 μ L of 50 mM ABC solution to redissolve proteins from acetone precipitation.
- 2. Add 48 mg of urea into sample. Final concentration of urea is 8M and the volume is ~ 100 ul.
- 3. Add 1 ul of 1 M DTT. Incubate at RT for 30 min.
- 4. Add 5 ul of 1 M IAM. Incubate at RT for 30 min.
- 5. Add 400 ul of 50 mM ABC
- 6. Add trypsin (w/w, enzyme: protein=1: 20~50) and incubate at 37°C for at least 16 hr.
- 7. Perform stage tip desalting.
- 8. Vacuum dry the sample.
- 9. Add 0.1% formic acid.