

Effect of specimen pretreatment condition to Active/Desacyl-Ghrelin level

Consideration for Bleeding Tubes

97751 Active Ghrelin ELISA Kit

97752 Desacyl-Ghrelin ELISA Kit

Consideration for Bleeding Tubes (1)

Specimens

Plasma(+)HCl and Serum are prepared from same donor.

Plasma(+)HCl

- Plasma is separated with Glucagon Bleeding Tubes (1.25mg/mL EDTA 2Na and 500KIU Aprotinin).
- After plasma separation, 1/10 volume of 1N HCl is added

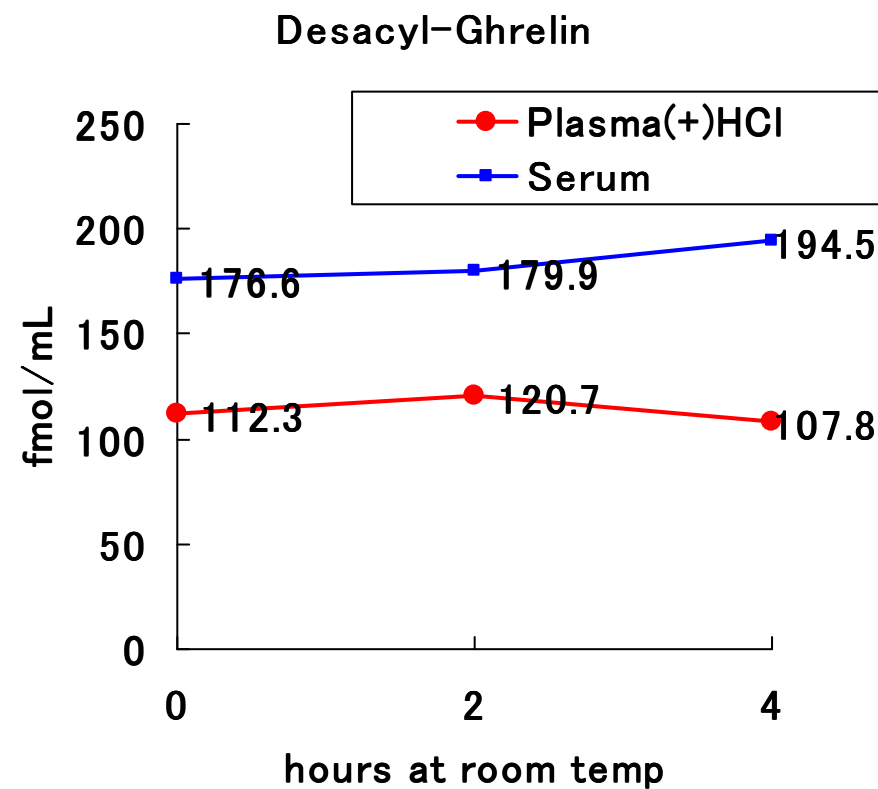
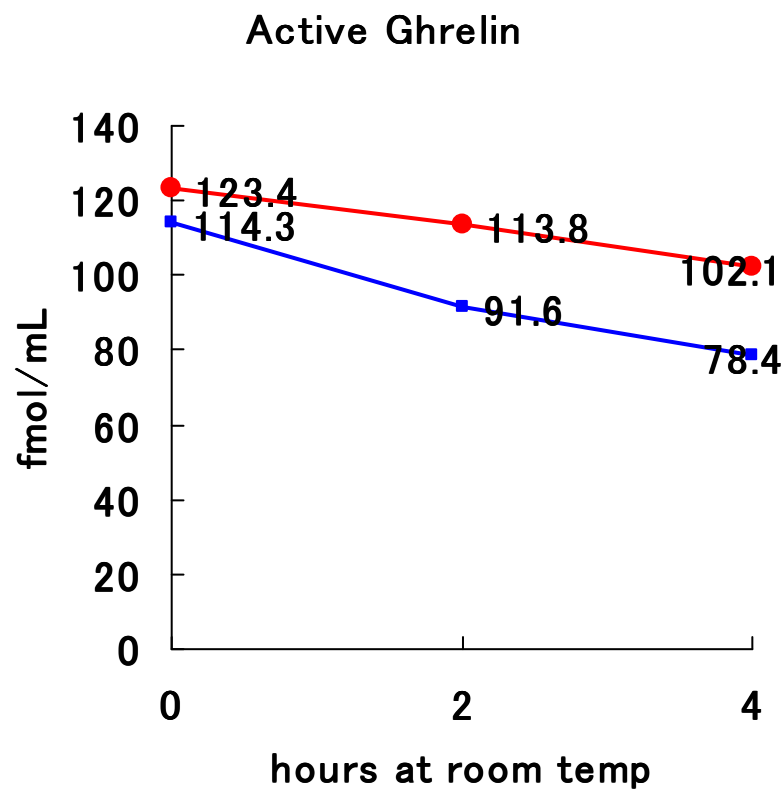
Serum

- Serum specimen are prepared with serum bleeding tube.

Measurement

Specimens are stored in room temperature on appropriate time, and Active Ghrelin and Desacyl-Ghrelin level Plasma+HCl are measured on time course.

Results



Consideration for Bleeding Tubes (2)

Specimens

Plasma(+)HCl and Plasma(-)HCl are prepared from same donor.

Plasma(+)HCl

- Plasma is separated with Glucagon Bleeding Tubes (1.25mg/mL EDTA 2Na and 500KIU Aprotinin).

- After plasma separation, 1/10 volume of 1N HCl is added

Plasma(-)HCl

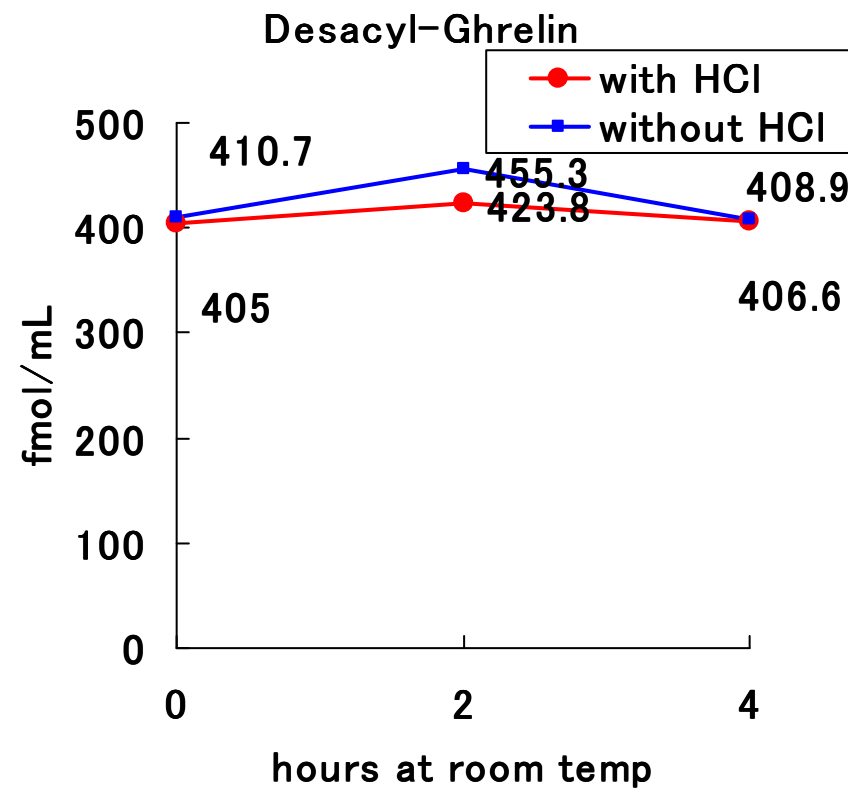
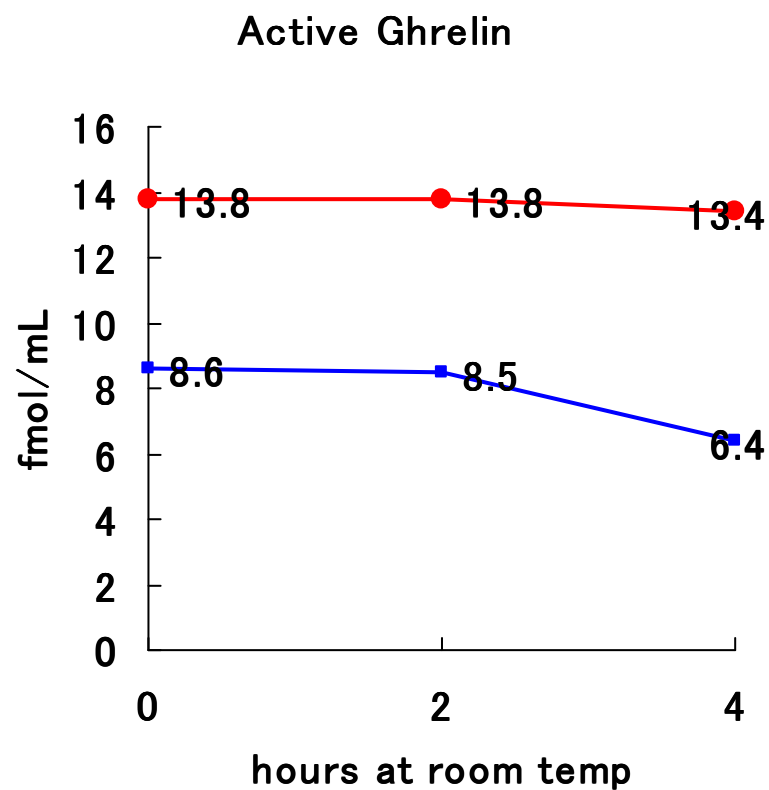
- Prepared same as Plasma(+)HCl, except addition of HCl.

Measurement

Specimens are stored in room temperature on appropriate time, and Active Ghrelin and Desacyl-Ghrelin level Plasma+HCl are

measured on time course.

Results



Discussion

Consideration for Bleeding Tubes (1)

- Active Ghrelin level of serum specimen is lower than Plasma(+)HCl, and it have been lower after room temperature treatment.
- Change of Desacyl-Ghrelin levels is opposite of Active Ghrelin level.
- It means Active Ghrelin in Plasma(+)HCl is more stable than Serum specimen.

Consideration for Bleeding Tubes (2)

- Active Ghrelin level of Plasma(-)HCL specimen is lower than Plasma(+)HCl, and it have been lower after room temperature treatment.
- It means addition of 1/10 vo. 1N HCl to plasma specimen is necessary for Active Ghrelin measurement.