

Active GLP-1 assay

► Compound list

Glucose	5.6 mM (Negative control)
Glucose	44.8 mM (Positive control)
Lithocholic acid	10 μ M
Lithocholic acid	100 μ M
Linoleic acid	10 μ M
Linoleic acid	100 μ M

► reagents and the assay system

Rat GLP-1 Cell kit ReproCELL Cat.No.RCPCC008

GLP-1 (7-36 amide) immunoassay kit PerkinElmer Inc. Cat.No. AL215C

EnSpire software version2.0 PerkinElmer Inc.

►protocol

- 1, Thaw Rat GLP-1 cells.
- 2, Culture the cells for 12 h with Medium A for GLP-1 in a CO₂ incubator.
- 3, Collect and resuspend the cells in Medium B for GLP-1, transfer the cell suspension to an assay plate (100 μ L/well).
- 4, Incubate the cells in the plate for 20 minutes in a CO₂ incubator.
- 5, Add the test compound solution into the assay plate (100 μ L/well).
- 6, Incubate the cells in the plate for 40 minutes in a CO₂ incubator.
- 7, Collect 5 μ L supernatant for measurement.

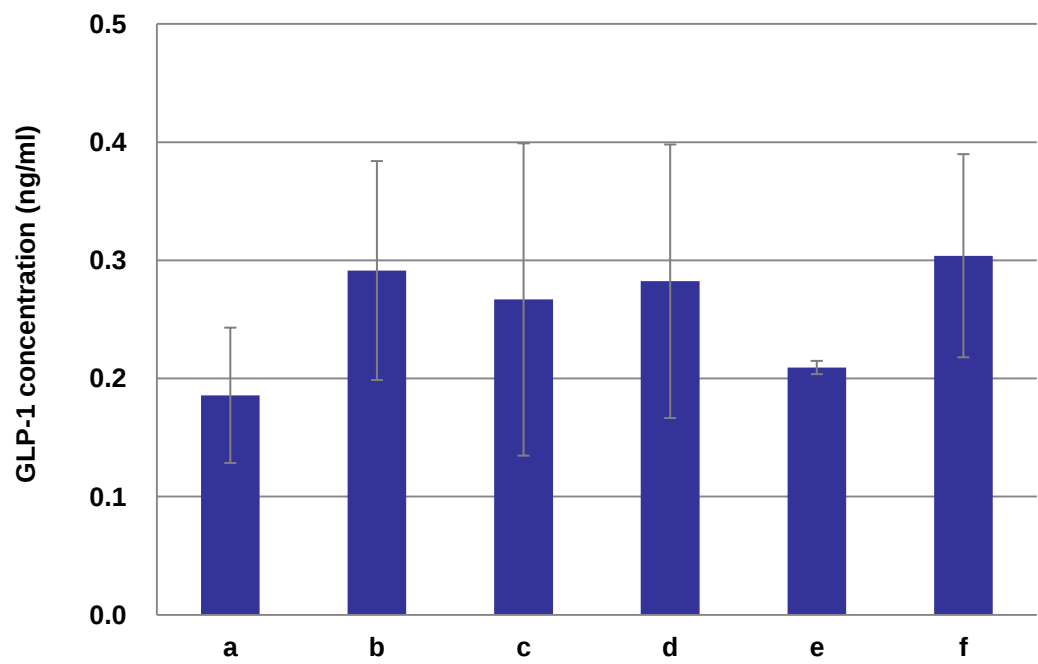
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► Results

Active GLP-1 concentration



SD n=4
a:Glucose 5.6 mM a:Glucose 5.6 mM
Negative control
b:Glucose 44.8 mM
c:Lithocholic acid 10 μ M
d:Lithocholic acid 100 μ M
e:Linoleic acid 10 μ M
f:Linoleic acid 100 μ M