Glucose Uptake Assay Kit (Red Fluorescence)

Catalog # KA4085 Size 1 Kit

Applications

Measurement of 2DG uptake in differentiated 3T3-L1 adipocytes and 3T3-L1 fibroblasts.

Measurement of 2DG uptake in differentiated 3T3-L1 adipocytes and 3T3-L1 fibroblasts.

Assays were performed with Glucose Uptake Assay Kit (Red Fluorescence) (Cat # KA4085) in a black wall/clear bottom cell culture Poly-D lysine plate using a Gemini (Molecular Devices) microplate reader. (A: Negative Control, no insulin no 2DG treatment. B: 2DG uptake in the absence of insulin. C: 2DG uptake in the presence of 1 uM insulin. D: 2DG uptake in the presence of 1 uM insulin and 200 uM phloretin. E: 2DG uptake in the presence of 1 uM insulin and 5mM D-Glucose.) (Please refer to the protocol for detailed operations).

Specification

Product Description	Glucose Uptake Assay Kit (Red Fluorescence) is used for the measurement of glucose uptake.
Suitable Sample	Live Cells
Excitation/ Emission (nm)	540/590 nm
Detection Method	Fluorometric
Instrument Platform	Microplate Readers
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit in desiccated environment at -20°C and avoid from light.

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Note	Measurement of 2DG uptake in differentiated 3T3-L1 adipocytes and 3T3-L1 fibroblasts. Measurement of 2DG uptake in differentiated 3T3-L1 adipocytes and 3T3-L1 fibroblasts. Assays were performed with Glucose Uptake Assay Kit (Red Fluorescence) (Cat # KA4085) in a black wall/clear bottom cell culture Poly-D lysine plate using a Gemini (Molecular Devices) microplate reader. (A: Negative Control, no insulin no 2DG treatment. B: 2DG uptake in the absence of insulin. C: 2DG uptake in the presence of 1 uM insulin. D: 2DG uptake in the presence of 1 uM insulin and 200 uM phloretin. E: 2DG uptake in the presence of 1 uM insulin and 5mM D-Glucose.) (Please refer to the protocol for detailed operations).

Applications

- Quantification

Publication Reference

- Silencing TCF4 Sensitizes Melanoma Cells to Vemurafenib Through Inhibiting GLUT3-Mediated Glycolysis.

  Can Liu, Siqi He, Jianfei Zhang, Shiyan Li, Jian Chen, Chaofei Han.

  OncoTargets and Therapy 2020 May; 13:4905.

  Application: Func, Human, A375, SK-Mel-28 cells

- Exercise Reduces Insulin Resistance in Type 2 Diabetes Mellitus via Mediating the lncRNA MALAT1/MicroRNA-382-3p/Resistin Axis.

  Liu SX, Zheng F, Xie KL, Xie MR, Jiang LJ, Cai Y.

  Molecular Therapy. Nucleic Acids 2019 Dec; 18:34.

  Application: Func, Human, HUVECs

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