

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.

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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.

Note

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Applications

- Quantification

Publication Reference

- [Silencing TCF4 Sensitizes Melanoma Cells to Vemurafenib Through Inhibiting GLUT3-Mediated Glycolysis.](#)

Can Liu, Siqi He, Jianfei Zhang, Shiyang 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