

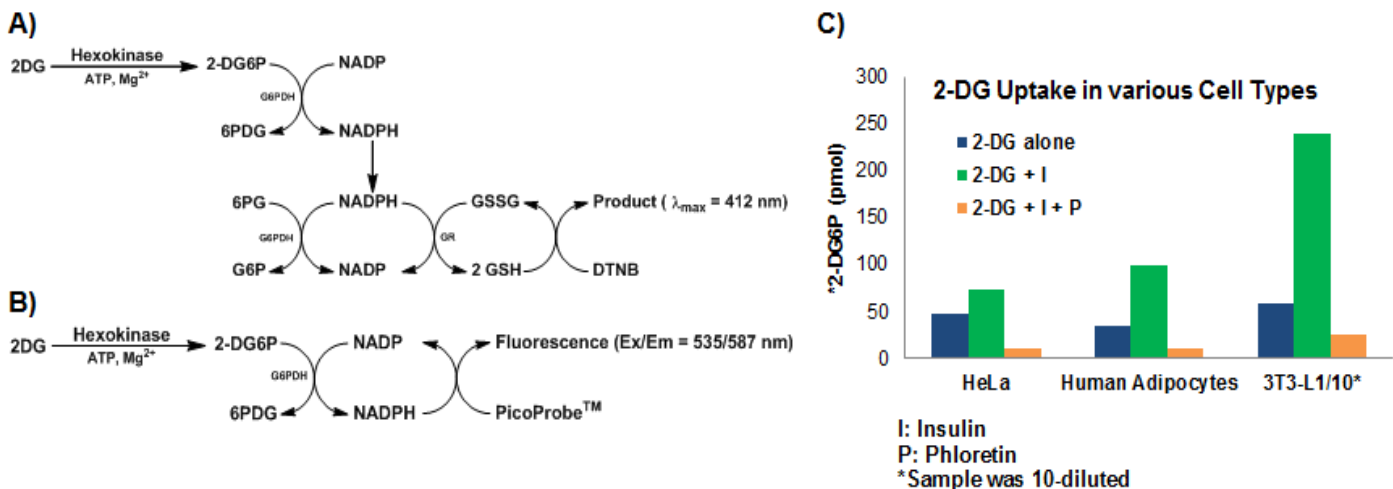
# Glucose Uptake Kits (Cell Based)

## Screening anti-diabetic drugs or studying Glucose Metabolism & Insulin Signaling has never been so easy!!!!

Diabetes has been recognized as a disorder of glucose intolerance for many decades. Insulin stimulates the glucose uptake into muscle & adipose tissues to maintain the whole-body glucose homeostasis. Among many different methods available for measuring glucose uptake in cells & tissues, 2-deoxyglucose (2-DG) has been widely used because of its structural similarity to glucose. As with glucose, 2-DG can be taken up by glucose transporters, and metabolized to 2-DG-6-phosphate (2-DG6P). 2-DG6P, however, cannot be further metabolized, and thus accumulates in the cells. The accumulated 2-DG6P is, therefore, directly proportional to 2-DG (or glucose) uptake by cells. BioVision is proud to offer the Simplest, Convenient & Non-Radioactive Glucose Uptake Measurement Kits on the market.

### Key Features:

- **Super-fast Protocol**
- **Highly Sensitive:** Detects glucose uptake as low as 10 pmol
- **High-Throughput Adaptable**
- **Both Fluorometric (Ex/Em = 535/587 nm) & Colorimetric (OD= 412 nm) formats**
- **Does not require correction for extracellular 2-DG**
- **Ample reagents to perform 100 assays in a 96-well plate format**



**Figures. A) K676 Assay Principle:** 2-DG6P is oxidized generating NADPH, and determined by an enzymatic recycling amplification reaction. **B) K666 Assay Principle:** 2-DG6P is enzymatically oxidized and coupled to BioVision's Picoprobe™, generating fluorescence in the presence of NADPH. **C) 2-DG Uptake in various cell types,** including HeLa, Human Adipocytes, and 3T3-L1 cells.

Product Name	Cat. No.	Size
Glucose Uptake Colorimetric Assay Kit	K676	100 assays
Glucose Uptake Fluorometric Assay Kit	K666	100 assays

Visit [www. BioVision.com](http://www.BioVision.com) for a comprehensive overview on Obesity & Diabetes Research Products!

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