CREATIVE BIOMART®
Assay Kit

Glucose-6-Phosphate Assay Kit

Product Information

Cat

Kit-2490

Cat.No. Kit-2490

Product Overview

Glucose-6-Phosphate (g6p) is glucose sugar phosphorylated on carbon 6. Most of the glucose entering cells is phosphorylated to G6P. G6P has three primary fates within the cell. It lies at the start of two major metabolic pathways: glycolysis and the pentose phosphate pathway. In addition to these metabolic pathways, glucose 6-phosphate may also be converted to glycogen or starch for storage. The Glucose-6-Phosphate Assay Kit provides a simple, and automation-ready procedure for measuring G6P concentration. G6P is oxidized by glucose-6-phosphate dehydrogenase and the formed NADPH is coupled to the formazan (WST-8) chromogen. The intensity of the product color, measured at 460 nm, is proportional to the G6P concentration in the sample.

Storage

-20°C

Shipping

On Ice

Size

100 tests

Detection method OD460nm

Compatible Sample Types

Plasma, serum, tissue and culture media etc

Features & Benefits

Fast and sensitive. Linear detection range: 10 to 1000 μM G6P.
Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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Assay time
20 min
Sensitivity
10 uM

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