CREATIVE BIOMART®
Assay Kit

Glucose-6-Phosphate Assay Kit II

Product Information

Cat.No. Kit-0350

Product Overview

Glucose-6-Phosphate Assay Kit is used for quantifying G6P.

Description

Glucose-6-phosphate (G6P) is a key sugar intermediate for glucose to get into cells, and then enter either metabolic pathways or storage. G6P can enter the glycolytic pathway, the pentose phosphate shunt or be stored as glycogen or starch. G6P is utilized by its dehydrogenase to generate reducing equivalents in the form of NADPH. This is particularly important in red blood cells where a G6PDH deficiency leads to hemolytic anemia. The Glucose-6-Phosphate Assay Kit is a simple, sensitive and rapid means of quantifying G6P in a variety of samples. In the assay, glucose-6-phosphate is oxidized with the generation of a product which is utilized to convert a nearly colorless probe to an intensely colored product with an absorbance at 450 nm. The Glucose-6-phosphate Assay Kit can detect G6P in the range of 1 to 30 nmoles with detection sensitivity ~10μM of G6P.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm G6P Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening. Keep enzyme mix on ice while in use.

Kit Components

G6P Assay Buffer. 25 mlG6P Enzyme Mix (Lyophilized). 1 vialG6P Substrate Mix (Lyophilized). 1 vialG6P Standard (10 μmol, Lyophilized). 1 vial

Detection method Colorimetric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

Glucose-6-Phosphate Assay Kit II

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA