CREATIVE BIOMART®
Assay Kit

Glucose-6-Phosphate Assay Kit

Product Information

Cat.No. Kit-0349

Product Overview

Glucose-6-Phosphate Assay Kit is a fluorescence-based method for quantification of glucose-6-phosphate.

Description

Glucose-6-phosphate (G6P) is a key intermediate for glucose transport into cells which then enters 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 NAD(P)H. This is particularly important in red blood cells where a G6PDH deficiency leads to hemolytic anemia. 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 that converts a nearly colorless probe to an intensely fluorescent product (Ex/Em = 535/587 nm). The Glucose-6-phosphate Assay Kit can detect G6P in the range of 10 to 500 pmoles which is equivalent to the range of 1-500 µM in the original sample assuming a dilution of 5X during processing. This kit is sensitive for low G6P samples.

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 ml WMPicoProbe (in DMSO) 0.4 ml BlueG6P Enzyme Mix lyophilized GreenG6P Substrate Mix lyophilized RedG6P Standard (10 µmol) lyophilized Yellow

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

Detection method Fluorometric

Compatible Sample Types

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

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

Fax:1-631-938-8127

Email:info@creative-biomart.org

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