CREATIVE BIOMART®
Assay Kit

UDP-Glucose Pyrophosphosphprylase (UGP) Activity Assay Kit

Product Information

Product Overview

Significance: UDP-glucose pyrophosphorylase (UGP) is a key enzyme in glycogen and polysaccharide biosynthesis. It catalyzes the activation of glucose by converting glucose-1-phosphate and UTP into UDP-glucose, an essential precursor for glycogen synthesis. Principle: UGP catalyzes a reversible reaction generating glucose-1-phosphate. In a coupled enzymatic system involving phosphoglucomutase and glucose-6-phosphate dehydrogenase, NADP⁺ is reduced to NADPH. The rate of increase in absorbance at 340 nm reflects UGP activity.

Size

100t/96s

Storage

Store at -20 °C. Shelf life: 6 months.

Synonyms

UGP Kit

Detection method Spectrophotometer/Microplate Reader

Technical Notes

For measurements using a 96-well plate, a 96-well UV plate must be used.

Materials Required but Not Supplied

Analytical balance, refrigerated centrifuge, mortar and pestle, UV spectrophotometer or microplate reader, quartz cuvettes or 96-well plates.

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