CREATIVE BIOMART®
Assay Kit

Triose Phosphate Isomerase Activity Colorimetric Assay Kit

Product Information

Cat.No. Kit-0817

Product Overview

Triose Phosphate Isomerase Activity Assay Kit (Colorimetric) is used to measure Triose Phosphate Isomerase activity.

Description

Triose Phosphate Isomerase (TPI or TIM: EC 5.3.1.1) is an important enzyme for glycolysis. It reversibly interconverts dihydroxyacetone phosphate and glyceraldehyde-3-phosphate, thus maintaining the equilibrium of these two triose phosphates. TPI connects glycolysis to pentose phosphate pathway and lipid metabolism. It is a stable homodimer found in almost all organisms. In humans, TPI deficiency is a rare multisystem disorder and leads to progressive neurological dysfunction, characterized by hemolytic anemia, cardiomyopathy and progressive neuromuscular impairment. Triose Phosphate Isomerase Activity Assay Kit (Colorimetric) provides a quick and easy way for monitoring Triose Phosphate Isomerase activity in a variety of samples. In this kit, Triose Phosphate Isomerase converts dihydroxyacetone phosphate into glyceradehyde-3-phosphate, which reacts with the Enzyme Mix and Developer to form a colored product with strong absorbance at 450 nm. The assay is simple, sensitive, and high-throughput and can detect Triose Phosphate Isomerase activity as low as 40 mU/mL.

Applications

Measurement of TPI activity in various tissues and cells.Analysis of glycolysis and pentose phosphate pathway and lipid metabolism.

Target Species

Human, Mammals

Usage

For research use only (RUO)

Storage

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

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Store kit at -20°C, protected from light.

Kit Components

TPI Assay Buffer 25 mLTPI Substrate (Lyophilized) 1 vialTPI Enzyme Mix (Lyophilized) 1 vialTPI Developer (Lyophilized) 1 vialNADH Standard (Lyophilized) 1 vialTPI Positive Control (Lyophilized) 1 vial

Detection method Colorimetric

Compatible Sample Types

Animal tissues: Heart, Kidney, Liver, Muscle, etcCell culture: Adherent or Suspension cellsHuman Serum, Human Plasma

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