CREATIVE BIOMART®
Assay Kit

Glycogen Assay Kit

Product Information

Cat.No. Kit-0379

Product Overview

Glycogen Assay Kit is used for measuring glycogen levels.

Description

Glycogen is the primary short term energy storage molecule in animals, synthesized primarily in the liver and muscle. Glycogen is a branched glucose polymer, in a-1,4 linkage, with branching via a-1,6 linkage. Abnormal ability to utilize glycogen is found in diabetes and in several genetic glycogen storage diseases. The Glycogen Assay Kit is an easy and convenient assay to measure glycogen levels in biological samples. In the assay, glucoamylase hydrolyzes the glycogen to glucose which is then specifically oxidized to produce a product that reacts with OxiRed probe to generate color (OD 570 nm) and fluorescence (Ex/Em = 535/587). The assay can detect glycogen 0.0004 to 2 mg/ml.

Applications

• Measurement of Glycogen in various tissues/cells• Analysis of metabolism and cell signaling in various cells

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light and moisture. Briefly centrifuge all small vials prior to opening. Read entire protocol before performing the assay.

Kit Components

Hydrolysis Buffer 25 ml NMDevelopment Buffer 25 ml WMOxiRed Probe 0.2 ml RedHydrolysis Enzyme Mix lyophilized BlueDevelopment Enzyme Mix lyophilized GreenGlycogen Standard (2.0 mg/ml) 100

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Glycogen Assay Kit

µl Yellow

Detection method Colorimetric, Fluorometric

Compatible Sample Types

• Animal tissues such as liver etc.• Cell culture: adherent or suspension cells

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