CREATIVE BIOMART®
Assay Kit

alpha-Glucosidase Assay Kit

Product Information

Cat.No. Kit-0062

Product Overview

alpha-Glucosidase Assay Kit is a colorimetric kinetic determination of a-Glucosidase activity.

Description

a-GLUCOSIDASE hydrolyzes the terminal, non-reducing 1,4-linked a-Dglucose residues with release of a-D-glucose. a-Glucosidase is needed by all animals to hydrolyze maltose to glucose for use as a food. Aberrant activities have been implicated in diseases such as diabetes and Pompe disease. Simple, direct and automation-ready procedures for measuring a-glucosidase activity are becoming popular in Research and Drug Discovery. alpha-Glucosidase Assay Kit is designed to measure a-glucosidase activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl-a-Dglucopyranoside that is hydrolyzed specifically by a-glucosidase into a yellow colored product (maximal absorbance at 405nm). The rate of the reaction is directly proportional to the enzyme activity.

Applications

Direct Assays: a-glucosidase activity in biological samples.Characterization and Quality Control for a-glucosidase production.Drug Discovery: high-throughput screen and evaluation of a-glucosidase inhibitors.

Usage

For research use only (RUO)

Storage

Store all reagents at -20°C. Shelf life: 6 months after receipt.

Kit Components

Assay Buffer: (pH 7.0) 24 mLa-NPG Substrate: 1 mLCalibrator: (equivalent to 250 U/L) 10 mL

Detection method Colorimetric

Compatible Sample Types

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alpha-Glucosidase Assay Kit

Biological Sample

Features & Benefits

High sensitivity and wide linear range: Use 20 µL sample. The detection limit is 2 U/L, linear up to 250 U/L.Homogeneous and simple procedure: Simple "mix-and-measure" procedure allows reliable quantitation of a-glucosidase activity within 20 minutes.Robust and amenable to HTS: All reagents are compatible with highthroughput liquid handling instruments.

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