

alpha-Glucosidase Assay Kit

Product Information

Cat.No.

Kit-0062

Product Overview

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

Description

α -GLUCOSIDASE hydrolyzes the terminal, non-reducing 1,4-linked α -Dglucose residues with release of α -D-glucose. α -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 α -glucosidase activity are becoming popular in Research and Drug Discovery. alpha-Glucosidase Assay Kit is designed to measure α -glucosidase activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl- α -Dglucopyranoside that is hydrolyzed specifically by α -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: α -glucosidase activity in biological samples. Characterization and Quality Control for α -glucosidase production. Drug Discovery: high-throughput screen and evaluation of α -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 mL
NPG Substrate: 1 mL
Calibrator: (equivalent to 250 U/L) 10 mL

Detection method

 Colorimetric

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



alpha-Glucosidase Assay Kit

Compatible Sample Types

Biological Sample

Features & Benefits

High sensitivity and wide linear range: Use 20 μ L 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 α -glucosidase activity within 20 minutes. Robust and amenable to HTS: All reagents are compatible with highthroughput liquid handling instruments.

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