CREATIVE BIOMART®
Assay Kit

GAA Activity Colorimetric Assay Kit

Product Information

Cat.No. Kit-0353

Product Overview

GAA Activity Assay Kit (Colorimetric) is used for measuring ?-Glucosidase activity using colorimetric methods.

Description

a-Glucosidase breaks down a-1,4 linked polysaccharides to glucose, which can be utilized as a source of energy. In the biotechnology industry, a-glucosidase is used to produce glucose from intermediate breakdown products of starch hydrolysis generated by enzymes such as amylase. Pompe disease, one of the 12 known glycogen storage diseases, is an autosomal recessive metabolic disorder attributed to a-glucosidase deficiency. In this disease, glycogen accumulates in the lysosomes, resulting in progressive muscle weakness, heart failure and other neurological symptoms. In GAA Activity Assay Kit (Colorimetric), a-Glucosidase hydrolyzes the Substrate Mix to release the p-nitrophenol that can be measured colorimetrically (OD = 410 nm). This is an easy, quick and high-throughput capable kit that can measure 0.1-10 mU of a-glucosidase activity in a variety of samples.

Applications

Measurement of a-Glucosidase activity in biological samplesScreening a-Glucosidase inhibitors

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protected from light. Warm a-Glucosidase Assay Buffer to room temperature before use.Briefly centrifuge small vials prior to opening.

Kit Components

a-Glucosidase Assay Buffer 25 mla-Glucosidase Substrate Mix 300 µla-Glucosidase Positive Control 1 vialp-Nitrophenol Standard (100 mM) 100 µl

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Detection method Colorimetric

Compatible Sample Types

Cell culture, Saliva, Serum, Tissue

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