

## GAA Activity Colorimetric Assay Kit

### Product Information

**Cat.No.**

Kit-0353

**Product Overview**

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

**Description**

$\alpha$ -Glucosidase breaks down  $\alpha$ -1,4 linked polysaccharides to glucose, which can be utilized as a source of energy. In the biotechnology industry,  $\alpha$ -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  $\alpha$ -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),  $\alpha$ -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  $\alpha$ -glucosidase activity in a variety of samples.

**Applications**

Measurement of  $\alpha$ -Glucosidase activity in biological samples Screening  $\alpha$ -Glucosidase inhibitors

**Usage**

For research use only (RUO)

**Storage**

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

**Kit Components**

$\alpha$ -Glucosidase Assay Buffer 25 ml  $\alpha$ -Glucosidase Substrate Mix 300  $\mu$ l  $\alpha$ -Glucosidase Positive Control 1



CREATIVE BIOMART®  
Assay Kit

## GAA Activity Colorimetric Assay Kit

vialp-Nitrophenol Standard (100 mM) 100 µl

---

**Detection method** Colorimetric

---

**Compatible Sample Types**

---

Cell culture, Saliva, Serum, Tissue

---

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.org](mailto:info@creative-biomart.org)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA