abcam

Product datasheet

Alpha-Glucosidase Activity Assay Kit (Colorimetric) ab174093

2 References 4 图像

概述

产品名称	Alpha-Glucosidase Activity Assay试剂盒(Colorimetric)
检测方法	Colorimetric
样品类型	Saliva, Serum, Cell culture extracts, Tissue, Adherent cells, Suspension cells
检测类型	Enzyme activity (quantitative)
范围	0.1 mU/well - 10 mU/well
种属反应性	**与反应:** Mammals, Other species
产品概述	In Abcam's Alpha-Glucosidase Activity Assay Kit (Colorimetric) (ab174093), α-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 α-glucosidase activity in a variety of samples.
说明	Visit our **FAQs page** for tips and troubleshooting. This product is manufactured by BioVision, an Abcam company and was previously called K690 α-Glucosidase Activity Colorimetric Assay Kit. K690-100 is the same size as the 100 test size of ab174093. α-Glucosidase breaks down α-1,4 linked polysaccharides to glucose, which can be utilized as a source of energy. In the biotechnology industry, α-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 α-glucosidase deficiency. In this disease, glycogen accumulates in the lysosomes, resulting in progressive muscle weakness, heart failure and other neurological symptoms.
平台	Microplate reader

性能

存放说明	Store at -20°C. Please refer to protocols.

组件	100 tests
α-Glucosidase Assay Buffer	1 x 25ml
α-Glucosidase Positive Control	1 vial
α-Glucosidase Substrate Mix	1 x 0.3ml
p-Nitrophenol Standard	1 x 100µl

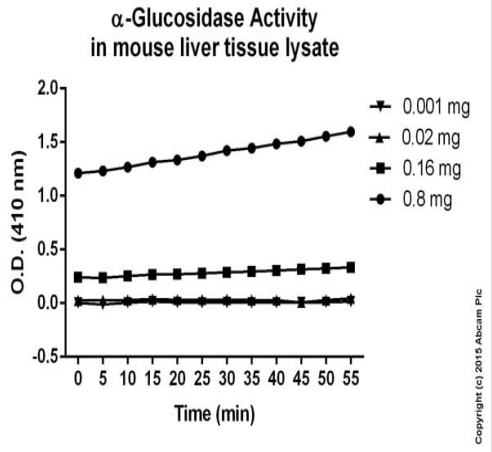
相关性

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.

细胞定位

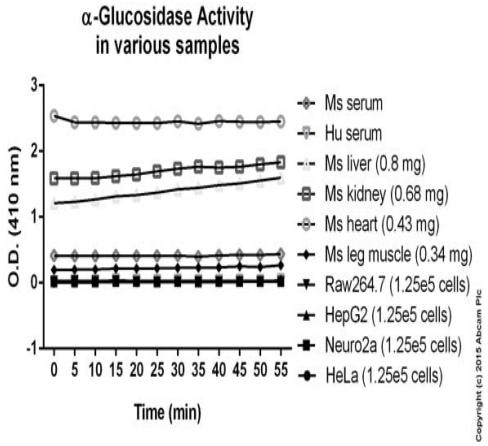
Lysosome. Lysosome membrane.

图片



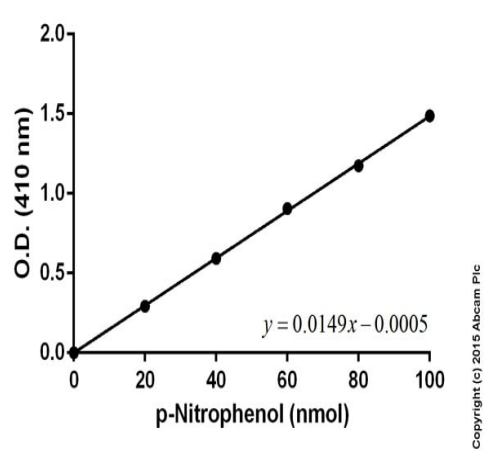
Alpha-Glucosidase Activity Assay Kit (ab174093)

Time course of Alpha-Glucosidase Activity in mouse liver tissue lysate



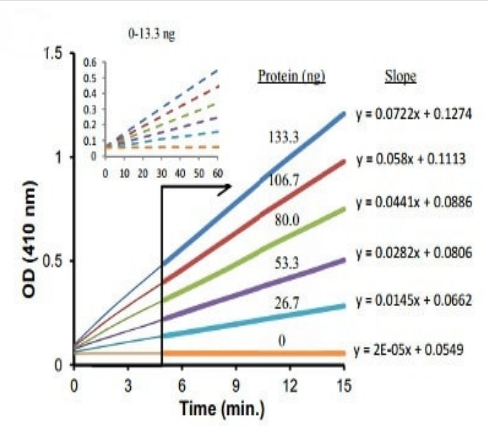
Alpha-Glucosidase Activity Assay Kit (ab174093)

Time course of Alpha-Glucosidase Activity in various samples



Alpha-Glucosidase Activity Assay Kit (ab174093)

Standard curve: mean of duplicates (+/- SD) with background reads subtracted



a-Glucosidase kinetic assay

Kinetic profile of various amounts (0, 2, 4, 6, 8 & 10 mU) of α-glucosidase run at 25°C under this protocol. Inset: Results for 0-0.2-0.4-0.6-0.8-1.0 mU of α-glucosidase. Data points after 5 minutes were used to determine slope. This is example data only.

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