

ARG82166 alpha Glucosidase Activity Assay Kit (Colorimetric)

Package: 100 tests
Store at: -20°C

Summary

Product Description	ARG82166 alpha Glucosidase Activity Assay Kit (Colorimetric) can be used to measure alpha Glucosidase activity in biological samples.
Tested Reactivity	Hu, Ms, Rat, All
Tested Application	FuncSt
Target Name	alpha Glucosidase
Conjugation Note	Read at 405 nm
Sensitivity	2 U/L
Detection Range	2 - 250 U/L
Sample Type	biological samples
Sample Volume	20 µl
Alternate Names	Lysosomal alpha-glucosidase; LYAG; Aglucosidase alfa; Acid maltase; EC 3.2.1.20

Application Instructions

Application Note	Please note that this kit does not include a microplate.
Assay Time	20 min

Properties

Form	Liquid
Storage instruction	Store the kit at -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

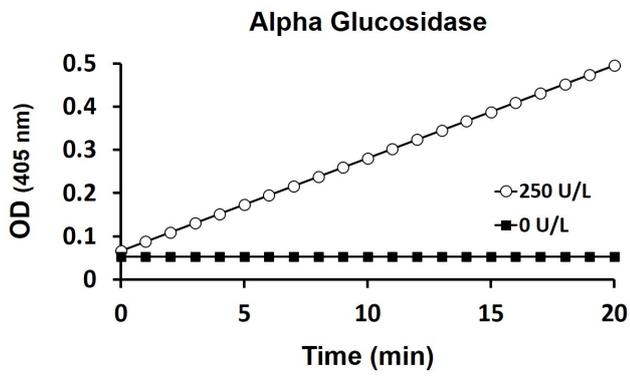
Gene Symbol	GAA
Gene Full Name	glucosidase, alpha; acid
Background	This gene encodes acid alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. Different forms of acid alpha-glucosidase are obtained by proteolytic processing. Defects in this gene are the cause of glycogen storage disease II, also known as Pompe's disease, which is an autosomal recessive disorder with a broad clinical spectrum. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Essential for the degradation of glygogen to glucose in lysosomes. [UniProt]
PTM	The different forms of acid glucosidase are obtained by proteolytic processing. Phosphorylation of mannose residues ensures efficient transport of the enzyme to the lysosomes via

the mannose 6-phosphate receptor. [UniProt]

Cellular Localization

Lysosome. Lysosome membrane. [UniProt]

Images



ARG82166 alpha Glucosidase Activity Assay Kit (Colorimetric) enzyme kinetics graph

Kinetics of 0 and 250 U/L alpha Glucosidase reaction, using ARG82166 alpha Glucosidase Activity Assay Kit (Colorimetric).