

Human Glucosidase Alpha, Acid (GaA) ELISA Kit | GaA elisa kit

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CATALOG #
AAA137377

REACTIVITY
Human

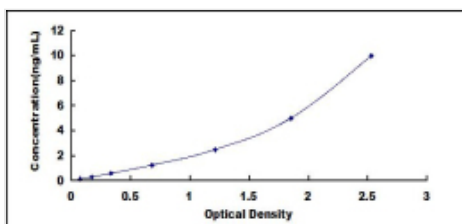
PRODUCT SYNONYMS

Glucosidase Alpha; Acid (GaA); Human Glucosidase Alpha; Acid (GaA) ELISA Kit; LYAG; Acid Alpha-Glucosidase; Lysosomal Alpha-Glucosidase; Pompe Disease Glycogen Storage Disease Type II; Acid Maltase; Aglucosidase Alfa; GaA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Glucosidase Alpha, Acid (GaA). No significant cross-reactivity or interference between Glucosidase Alpha, Acid (GaA) and analogues was observed.
Sequence Length	952
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Glucosidase Alpha, Acid (GaA) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Glucosidase Alpha, Acid (GaA) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GaA elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Glucosidase Alpha, Acid (GaA). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Glucosidase Alpha, Acid (GaA). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Glucosidase Alpha, Acid (GaA), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Glucosidase Alpha, Acid (GaA) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for GaA elisa kit	Enzyme & Kinase; Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	26251857
NCBI GeneID	2548
UniProt Accession #	P10253; Q09GN4; Q14351; Q16302; Q8IWE7
Molecular Weight	105,324 Da
NCBI Official Full Name	Glucosidase, alpha; acid
NCBI Official Synonym Full Names	glucosidase, alpha; acid
NCBI Official Symbol	GAA
NCBI Official Synonym Symbols	LYAG
NCBI Protein Information	lysosomal alpha-glucosidase
UniProt Protein Name	Lysosomal alpha-glucosidase
UniProt Gene Name	GAA
UniProt Entry Name	LYAG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/glucosidase-alpha-acid-gaa/137377>