

Human Glycated Hemoglobin A1c ELISA Kit | HbA1c elisa kit

Human Glycated Hemoglobin A1c (HbA1c) ELISA Kit

CATALOG #
AAA20995

REACTIVITY
Human

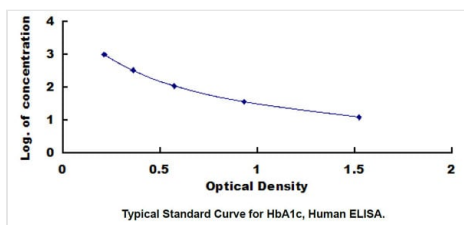
PRODUCT SYNONYMS

Glycated Hemoglobin A1c; Human Glycated Hemoglobin A1c (HbA1c) ELISA Kit; Glycosylated Hemoglobin; Hemoglobin A1c; Hb1c; HbA1c; HbA1c elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of HbA1c. No significant cross-reactivity or interference between HbA1c and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Human serum, plasma and erythrocyte lysates
Detection Range	12.35-1,000ug/mL
Sensitivity	< 4.99ug/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level HbA1c were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level HbA1c were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 HbA1c elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to HbA1c has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled HbA1c and unlabeled HbA1c (Standards or samples) with the pre-coated antibody specific to HbA1c. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of HbA1c in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of HbA1c in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of HbA1c in human serum, plasma and erythrocyte lysates.
References	Study of LHCGR gene variants in a sample of colombian women with polycystic ovarian syndrome: A pilot study; Journal of King Saud University; 2022 Volume 34, Issue 6; María Camila Alarcón-Granados; Facultad de Ciencias. Grupo de investigación en Ciencias Biomédicas (GICBUPTC), Universidad Pedagógica y Tecnológica de Colombia, Tunja 150003, Colombia

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://www.aaabiotech.com/hba1c-human-elisa-kits/glycated-hemoglobin-a1c/20995>