

Rat Glycated Hemoglobin A1c ELISA Kit | HbA1c elisa kit

Rat Glycated Hemoglobin A1c (HbA1c) ELISA Kit

CATALOG #
AAA21041

REACTIVITY
Rat

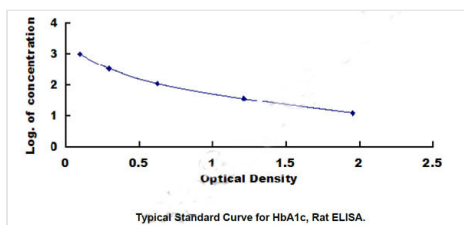
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
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	Rat 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 rat plasma and erythrocyte lysates.
References	Potential of honey against the onset of autoimmune diabetes and its associated nephropathy, pancreatitis, and retinopathy in type 1 diabetic animal model; Open Life Sci; 2022 Apr 6;17(1):351-361.; PMID: 35480484; Sultan Fahad Al Nohair; Department of Family and Community Medicine, College of Medicine, Qassim University, Buraidah, Saudi Arabia.

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/hba1c-rat-elisa-kits/glycated-hemoglobin-a1c/21041>