

Glucokinase (GCK) Assay Kit | GCK assay kit

Glucokinase (GCK) Activity Colorimetric Assay Kit

CATALOG #
AAA179688

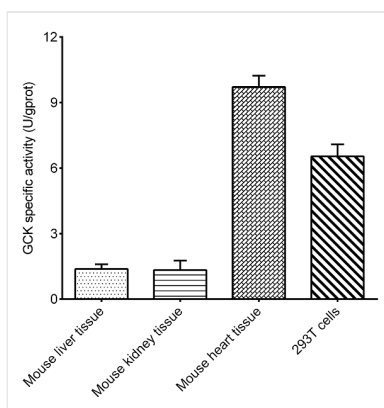
PRODUCT SYNONYMS

Glucokinase (GCK); Glucokinase (GCK) Activity Colorimetric Assay Kit; GCK assay kit

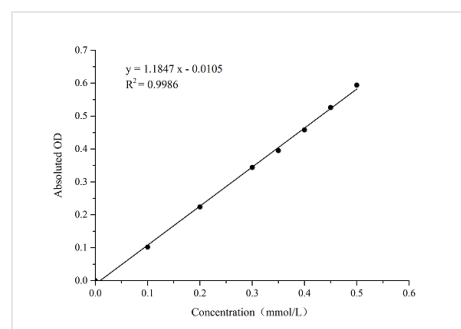
PRODUCT SPECIFICATIONS

Detection Type	Colorimetric
Result Type	Enzyme activity
Samples	Animal tissue, Cell
Detection Range	2.62-42.80U/L
Sensitivity	2.62U/L
Precision	Intra-assay CV: 2.9-6.6% Inter-assay CV: 1.3-7.4%
Detection Instrument	Microplate reader
Preparation and Storage	This product can be stored at -20 degree C for 12 months with shading light.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for GCK assay kit

Glucokinase (GCK) is a key enzyme in the glucose metabolism pathway. It participates in the first step of glycolysis, catalyzes glucose phosphorylation, promotes insulin secretion and glucose metabolism, and effectively controls blood glucose balance in internal. GCK, also known as hexokinase IV, is mainly expressed in hepatocytes and islet beta-cell, and has a stronger affinity for glucose than other hexokinases. Therefore, the total hexokinase activity in the sample is measured at high glucose concentration, and the hexokinase activity with low glucose affinity is measured at low glucose concentration. The GCK activity in the sample can be obtained by subtracting the total hexokinase from the total hexokinase. The detection principle of this kit: GCK catalyzes the substrate reaction to produce NADPH, which reacts with the chromogenic agent. The activity of GCK can be calculated by measuring the generation rate of chromogenic substance at 450nm.

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/assay-kits/glucokinase-gck/179688>