

Glycogen synthase (GCS) Detection Kit | GCS detection kit

Micro Glycogen synthase(GCS) Activity Assay Kit

CATALOG #
AAA332639

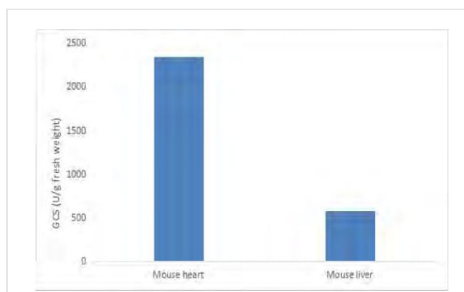
PRODUCT SYNONYMS

Glycogen synthase (GCS); Micro Glycogen synthase(GCS) Activity Assay Kit; GCS detection kit

PRODUCT SPECIFICATIONS

Samples	Animal Tissues, Cells or Bacteria
Features & Benefits	Determines glycogen synthase activity in animal tissues, cells, and bacteria. Detailed methods for sample preparation and calculation of results are provided.
Usage Notes	96 Well Clear Flat Bottom UV-Transparent Microplate is needed. Do not mix or substitute reagents or materials from other kit lots or vendors. The sample preparation must be done on ice to prevent the enzyme inactivation, and the enzyme activity should be determined on the same day. avoid repeated freeze-thaw. Ensure all reagents and equipment are at the appropriate temperature before starting the assay. The Glycogen Synthase Activity Assay Kit (micro assay) provides a simple method for the detection of glycogen synthase activity in biological samples such as animal tissues, cells and bacteria. In the assay, the GCS present in the sample catalyzes the formation of glycogen and UDP from UDPG and glucose residues, and pyruvate kinase and lactate dehydrogenase further catalyze the formation of NAD⁺ from NADH sequentially, and the rate of decrease of NADH is measured at 340 nm, which is indicative of GCS activity.
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCS detection kit

Principle of the Assay: Glycogen synthase (GCS) adds the glycosyl of UDPG to the original glycogen or the non-reducing end of glycogen protein, and connects them with alpha-1,4 glycosidic bonds. GCS is the rate-limiting enzyme in the process of glycogen synthesis in animals, and it is also the main target enzyme of insulin, which plays an important role in the process of glucose metabolism and maintaining the relative stability of blood sugar. GCS catalyzes UDPG and glucose residues to generate glycogen and UDP, and pyruvate kinase and lactate dehydrogenase further catalyze NADH to generate NAD⁺ in turn. The activity of GCS can be reflected by measuring the decline rate of NADH at 340 nm.

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/detection-kits/glycogen-synthase-gcs/332639>