

General Glycogen Branching Enzyme Assay Kit

Glycogen Branching Enzyme Microplate Assay Kit

CATALOG # AAA264722	REACTIVITY General	APPLICATIONS Functional Assay
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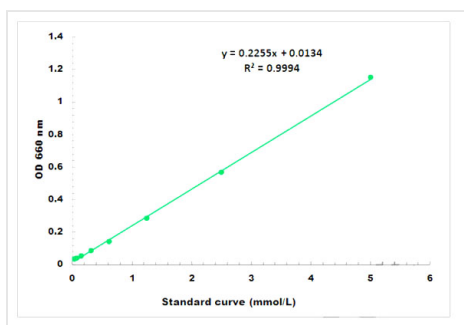
PRODUCT SYNONYMS

Glycogen Branching Enzyme; Glycogen Branching Enzyme Microplate Assay Kit; Glycogen Branching Enzyme assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	766
Samples	Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	0.05 mmol/L - 5 mmol/L
Applicable Applications for Glycogen Branching Enzyme assay kit	FA (Functional Assay)
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Glycogen Branching Enzyme assay kit

Background: Glycogen branching enzyme (EC 2.4.1.18) is an enzyme that adds branches to the growing glycogen molecule during the synthesis of glycogen, a storage form of glucose. More specifically, during glycogen synthesis, a glucose 1-phosphate molecule reacts with uridine triphosphate (UTP) to become UDP-glucose, an activated form of glucose. The activated glucosyl unit of UDP-glucose is then transferred to the hydroxyl group at the C-4 of a terminal residue of glycogen to form an alpha-1,4-glycosidic linkage, a reaction catalyzed by glycogen synthase. Importantly, glycogen synthase can only catalyze the synthesis of alpha-1,4-glycosidic linkages. Since glycogen is a readily mobilized storage form of glucose, the extended glycogen polymer is branched by glycogen branching enzyme to provide glycogen breakdown enzymes, such as glycogen phosphorylase, with a large number of terminal residues for rapid degradation. Branching also importantly increases the solubility and decreases the osmotic strength of glycogen. Glycogen branching enzyme Microplate Assay Kit is a sensitive assay for determining Glycogen branching enzyme in various samples. Glycogen branching enzyme activity is determined by iodine. The reaction products can be measured at a colorimetric readout at 660 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	428690783
NCBI Official Full Name	glycogen branching enzyme

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/general-assay-kits/glycogen-branching-enzyme/264722>