

General Glucose-6-Phosphate Dehydrogenase Assay Kit | G6PD assay kit

Glucose-6-Phosphate Dehydrogenase Microplate Assay Kit

CATALOG # AAA261585	REACTIVITY General	APPLICATIONS Functional Assay
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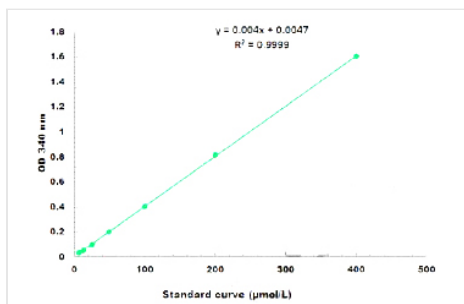
PRODUCT SYNONYMS

Glucose-6-Phosphate Dehydrogenase; Glucose-6-Phosphate Dehydrogenase Microplate Assay Kit; EC 1.1.1.49; Glucose-6-phosphate dehydrogenase (NADP(+)); G6PD; G6PDH; Glucose-6-phosphate 1-dehydrogenase; Glucose-6-phosphate dehydrogenase; GPD; G6PD assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	101
Samples	Urine, Serum, Plasma, Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	4 umol/L - 400 umol/L
Applicable Applications for G6PD assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for G6PD assay kit

Background/Introduction: Glucose 6 phosphate dehydrogenase (G6PDH) is a cytosolic enzyme in the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells (such as erythrocytes) by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH). The NADPH in turn maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. Of greater quantitative importance is the production of NADPH for tissues actively engaged in biosynthesis of fatty acids and/or isoprenoids, such as the liver, mammary glands, adipose tissue, and the adrenal glands. The reaction velocity is determined by measuring the increase in absorbance at 340 nm resulting from the reduction of NADP.

NCBI AND UNIPROT INFORMATION

NCBI GI #	299499
NCBI GeneID	2539

Molecular Weight	62,468 Da
NCBI Official Full Name	glucose-6-phosphate dehydrogenase, partial
NCBI Official Synonym Full Names	glucose-6-phosphate dehydrogenase
NCBI Official Symbol	G6PD
NCBI Official Synonym Symbols	G6PD1
NCBI Protein Information	glucose-6-phosphate 1-dehydrogenase
UniProt Protein Name	Glucose-6-phosphate 1-dehydrogenase
UniProt Gene Name	G6PD
UniProt Synonym Gene Names	G6PD
UniProt Entry Name	G6PD_HUMAN

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/glucose-6-phosphate-dehydrogenase/261585>