

General Phosphofructokinase Assay Kit | Pfk assay kit

Phosphofructokinase Microplate Assay Kit

CATALOG # AAA27818	REACTIVITY General	APPLICATIONS Functional Assay
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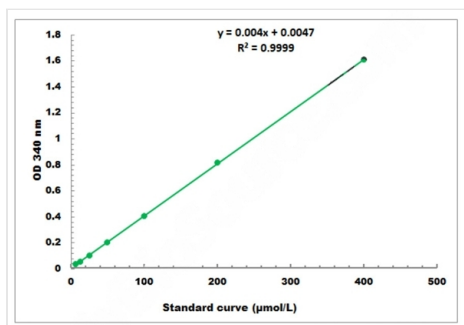
PRODUCT SYNONYMS

Phosphofructokinase; Phosphofructokinase Microplate Assay Kit; EC 2.7.1.11; PFK; 6-phosphofructokinase; Phosphofructokinase I; Phosphohexokinase; Pfk assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	922
Samples	Urine, Serum, Plasma, Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	4 $\mu\text{mol/L}$ - 400 $\mu\text{mol/L}$
Applicable Applications for Pfk 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 Pfk assay kit

Background: Phosphofructokinase (PFK) is a key glycolytic enzyme and plays a major regulatory role during glycolysis. This enzyme is present in bacteria, plants and animals. There are 2 types of PFKs - PFK1 and PFK2. In the presence of ATP, PFK1 & PFK2 catalyzes the conversion of fructose-6-phosphate to fructose-1,6-diphosphate and fructose-2,6-diphosphate respectively and ADP. PFK has 3 major isoforms in mammals: PFK-M (muscle), PFK-L (liver) and PFK-P (platelet). In humans, PFK deficiency causes glycogen storage disease, also called Tarui's disease, which is characterized by exercise-induced muscle weakness and cramps. On the other hand, increased PFK activity contributes to cancer cell proliferation and tumorigenicity. Early detection of abnormal phosphofructokinase activity is crucial for diagnosis, prediction and therapeutic strategy. The Phosphofructokinase Microplate Assay Kit, PFK converts fructose-6-phosphate and ATP to fructose-diphosphate and ADP. NADH can be measured at a colorimetric readout at 340 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	442623120
NCBI GeneID	36060
NCBI Accession #	NP_001260847.1
NCBI GenBank Nucleotide #	NM_001273918.1
Molecular Weight	86,720 Da
NCBI Official Full Name	phosphofructokinase, isoform E
NCBI Official Synonym Full Names	Phosphofructokinase
NCBI Official Symbol	Pfk
NCBI Official Synonym Symbols	BcDNA.GH12192; BcDNA:GH12192; CG4001; DmelCG4001; l(2)06339; pfk; PFK; PFK1
NCBI Protein Information	CG4001 gene product from transcript CG4001-RE
UniProt Protein Name	ATP-dependent 6-phosphofructokinase
UniProt Gene Name	Pfk
UniProt Synonym Gene Names	ATP-PFK; Phosphofructokinase
UniProt Entry Name	PFKA_DROME

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/phosphofructokinase/27818>