

General Creatine Kinase Assay Kit | CKM assay kit

Creatine Kinase Microplate Assay Kit

CATALOG # AAA261572	REACTIVITY General	APPLICATIONS Functional Assay
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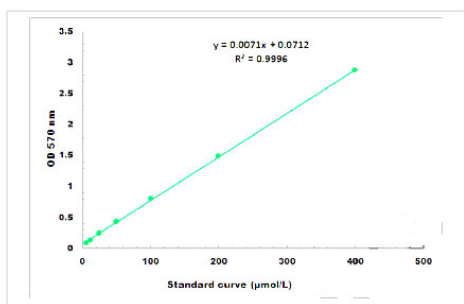
PRODUCT SYNONYMS

Creatine Kinase; Creatine Kinase Microplate Assay Kit; EC 2.7.3.2; Creatine kinase; CK; CKM assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	381
Samples	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 CKM 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 CKM assay kit

Background/Introduction: Creatine Kinase (CK), also known as phosphocreatine kinase, is an enzyme that catalyzes the transfer of one phosphate group from ATP to creatine generating phosphocreatine, an important energy reservoir in muscle and brain tissue. CK is a dimeric protein made up of B (brain) and M (muscle) subunits. Three isoenzymes, CK-MM, CK-MB, and CK-BB, have been observed. CK levels are elevated in various pathological conditions including myocardial infarction, rhabdomyolysis, muscular dystrophy, and renal failure. Creatine Kinase Activity Microplate Assay Kit provides a simple and direct procedure for measuring CK levels in a variety of samples such as blood, serum, and plasma. In this reaction, phosphocreatine and ADP are converted to creatine and ATP. The generated ATP is used by hexokinase to phosphorylate glucose resulting in glucose-6-phosphate, which is oxidized by NADP in the presence of glucose-6-phosphate dehydrogenase to produce NADPH and 6-phospho-D-gluconate, measured at 570 nm, proportionate to the CK activity present in the sample.

NCBI AND UNIPROT INFORMATION

NCBI GI #	180588
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NCBI GeneID	1158
Molecular Weight	43,101 Da
NCBI Official Full Name	creatine kinase
NCBI Official Synonym Full Names	creatine kinase, M-type
NCBI Official Symbol	CKM
NCBI Official Synonym Symbols	CKMM; M-CK
NCBI Protein Information	creatine kinase M-type
UniProt Protein Name	Creatine kinase M-type
UniProt Gene Name	CKM
UniProt Synonym Gene Names	CKMM
UniProt Entry Name	KCRM_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://stage.aaabiotech.com/general-assay-kits/creatine-kinase/261572>