

Active Recombinant *Macaca fascicularis* creatine kinase, His-tagged

Cat. No. ck-9175M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Macaca fascicularis</i> creatine kinase protein, A DNA sequence encoding the full length creatine kinase of <i>Macaca fascicularis</i> corresponding to amino acid (1-381) was expressed with a C-terminal polyhistidine tag in Sf9 cells.
Species	<i>Macaca fascicularis</i>
Source	Sf9 Cells
ProteinLength	381 amino acids
Description	Creatine Kinase (CK) also known as creatine phosphokinase (CPK) and ATP: creatine N-phosphotransferase is a common cellular enzyme (EC 2.7.3.2). It catalyzes the reversible conversion of creatine and ATP into ADP and phosphocreatine. CK is widely expressed in various tissues and cell types, with highest activity in striated muscles, heart tissue and brain. CK consists of two subunits: M (muscle) and B (brain), and has three isoenzymes: CK-MM (skeleton muscle), CK-MB (cardiac muscle), and CK-BB (brain). Increased CK level is associated with many diseases such as myocardial infarction, muscular dystrophy, pulmonary infarction and brain tumors.
Form	liquid. PBS pH7.4, 146mM sucrose, 0.5mM TCEP
Bio-activity	~106U/mg. Creatine kinase (CK) activity was measured by the production of molybdenum blue at 660nm. Concentrations were expressed U/mg (CK).

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Molecular Mass	The recombinant CK consists of 381 amino acids and has a predicted molecular mass of 43kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 43kDa.
AA Sequence	MPFGNTHNKFKLNYKPEEEYPDLSKHNNHMAKVLTLDLYKKLRDKETPSGFTLDDVI QTGVDNPGHPFIMTVGCV AGDEESYEVFKELFDPIISDRHG GYKPTDKHKTDLNHE NLKGGDDLDPNYVLSSRVRTGRS IKG YTLPPHCSRG ERRAVEKLSVEALNSLTGEF KGKYYPLKSMTEKEQQQLIDDHFLDKPVSP LLLASGMARDWPDARGIWHNDNK S FLVWVNEEDHLRVISMEKGGNMKEVFRRFCVGLQKIEEIFKKAGHPFMWNQHLGYV LTCPSNLGTGLRGGVHV KLAHLSKHPKFEEILTRLRLQKRGTGGVDTAAVGSVFDV SNADRLGSSEVEQVQLVVDGVKLMVEMEKKLEKGQ SIDD MIPA QK
Purity	>95% as determined by SDS-PAGE
Storage	Store it at +4°C for short term. For long term storage, store it at -20°C ~ -70°C
Concentration	0.625 mg/ml