

Creatine kinase M-type/CKM Protein, Human (HEK293, His)

Cat. No.:	HY-P7827
Synonyms:	rHuCreatine kinase M-type/CKMM, His; Creatine kinase M-type; Creatine kinase M chain; M-CK; CKM; CKMM
Species:	Human
Source:	HEK293
Accession:	AAP35439.1 (M1-K381)
Gene ID:	1158
Molecular Weight:	Approximately 46.0 kDa

PROPERTIES

AA Sequence	<pre> M P F G N T H N K F K L N Y K P E E E Y P D L S K H N N H M A K V L T L E L Y K K L R D K E T P S G F T V D D V I Q T G V D N P G H P F I M T V G C V A G D E E S Y E V F K E L F D P I I S D R H G G Y K P T D K H K T D L N H E N L K G G D D L D P N Y V L S S R V R T G R S I K G Y T L P P H C S R G E R R A V E K L S V E A L N S L T G E F K G K Y Y P L K S M T E K E Q Q Q L I D D H F L F D K P V S P L L L A S G M A R D W P D A R G I W H N D N K S F L V W V N E E D H L R V I S M E K G G N M K E V F R R F C V G L Q K I E E I F K K A G H P F M W N Q H L G Y V L T C P S N L G T G L R G G V H V K L A H L S K H P K F E E I L T R L R L Q K R G T G G V D T A A V G S V F D V S N A D R L G S S E V E Q V Q L V V D G V K L M V E M E K K L E K G Q S I D D M I P A Q K </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	KCRM is a cytoplasmic creatine kinase isoenzyme that reversibly catalyzes phosphate transfer between ATP and various
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phosphogens (e.g., creatine phosphate). KCRM is involved in energy transduction and energy homeostasis in tissues with large and fluctuating energy demands, such as skeletal muscle, heart, brain, and sperm, and is an important serum marker of myocardial infarction. KCRM acts as a homodimer in striated muscle and other tissues and as a heterodimer in the heart with similar brain isozymes. Skeletal muscle, as an important secretory organ, differentially secretes cleaved KCRM peptide in type 2 diabetes mellitus (T2DM) skeletal muscle tissue. Naturally occurring mutations in KCRM may render individuals with active serum creatine kinase unresponsive to Tenofovir (HY-13910) pre-exposure prophylaxis (PrEP) HIV.

Caution: Product has not been fully validated for medical applications. For research use only.

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