

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

Cat. No.:	HY-P700577
Synonyms:	rHuCreatine kinase M-type/CKMM, His; Creatine kinase M-type; Creatine kinase M chain; M-CK; CKM; CKMM
Species:	Mouse
Source:	E. coli
Accession:	P07310 (M1-K381)
Gene ID:	12715
Molecular Weight:	49.0 kDa

PROPERTIES

AA Sequence	M P F G N T H N K F K L N Y K P Q E E Y P D L S K H N N H M A K V L T P D L Y N K L R D K E T P S G F T L 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 T V F K D L F D P I I Q 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 Q 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 E 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 N 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 A V F D I 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
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The Creatine Kinase M-type (CKM) protein is pivotal in reversibly catalyzing the transfer of phosphate between ATP and
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various phosphogens, including creatine phosphate. Operating as a creatine kinase isoenzyme, CKM assumes a central role in energy transduction processes, particularly in tissues characterized by substantial and fluctuating energy demands. These tissues encompass skeletal muscle, heart, brain, and spermatozoa, where CKM facilitates the efficient utilization and storage of energy. In doing so, creatine kinase isoenzymes, exemplified by CKM, contribute significantly to maintaining energy homeostasis and meeting dynamic metabolic requirements within these vital tissues.

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

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