

Recombinant Human creatine kinase, muscle Protein, His&Flag tagged

Cat. No. CKM-171H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CKM protein (P06732) (Pro 2-Lys 381) with both His, Flag tag at the C-terminus was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-381aa
Description	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.
Tag	C-His&Flag
Molecular Mass	46 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

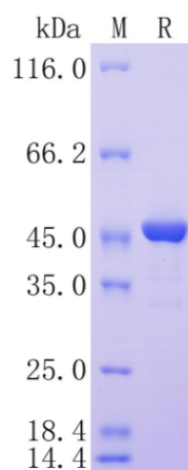
Gene Name	CKM creatine kinase, muscle [Homo sapiens (human)]
Official Symbol	CKM
Synonyms	CKM; creatine kinase, muscle; CKMM; creatine kinase M-type; creatine kinase-M; creatine kinase M chain; M-CK;
Gene ID	1158
mRNA Refseq	NM_001824
Protein Refseq	NP_001815
MIM	123310
UniProt ID	P06732

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**Protein on SDS-
PAGE under
reducing (R)
condition.**



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