

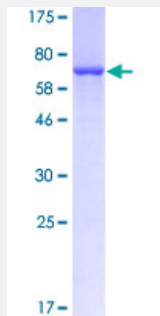
Full-Length

CKM (Human) Recombinant Protein (P01)

Catalog # H00001158-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CKM full-length ORF (AAH07462, 1 a.a. - 381 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPFGNTHNKFKLNYKPEEEYPDLSKHNNHMAKVLTELYKKLRDKETPSGFTVDDVIQTGVDNPG
HPFIMTVGCVAGDEESYEVFKELFDPIISDCHGGYKPTDKHKTDLNHENLKGGDDLDPNYVLSSR
VRTGRSIKGYTLPPHCSRGERRAVEKLSVEALNSLAGFEKGYPLKSMTEKEQQQLIDDHFLFD
KPVSPLLLASGMARDWPDARGMWHNDNKSLLVWVNEEDHLRVISMEKGGNMKEVFRRFCVGLQ
KIEEIFKKAGHPFMWNQHLGYVLTCPSNLGTGLRGGVHVKLAHLSKHPKFEEILTRLRLQKRGTTG
VDTAAVGSVFDVSNADRLGSSEVEQVQLVVDGVKLMVEMKKLEKGSIDDMIPAQK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.65

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CKM

Entrez GeneID [1158](#)

GeneBank Accession# [BC007462](#)

Protein Accession# [AAH07462](#)

Gene Name CKM

Gene Alias CKMM, M-CK

Gene Description creatine kinase, muscle

Omim ID [123310](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations creatine kinase M chain|creatine kinase-M|muscle creatine kinase

Pathway

- [Arginine and proline metabolism](#)

- [Metabolic pathways](#)

Disease

- [Body Weight](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Task Performance and Analysis](#)