

# Recombinant Human Creatine Kinase MM/CKMM Protein

Catalog No.: RP02817LQ Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 1158 P06732

**Tags** C-His

**Synonyms** 

Creatine kinase M-type; Creatine kinase M chain; M-CK; CKM; CKMM

# **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

44.1 kDa 46 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Supplied as a 0.22  $\mu m$  filtered solution in 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.

### Reconstitution

# **Background**

Creatine kinase M-type is also known as Creatine kinase M chain,M-CK. It is a protein that in humans is encoded by the CKM gene. It belongs to the ATP:guanido phosphotransferase family,containing 1 phosphagen kinase C-terminal domain and 1 phosphagen kinase N-terminal domain. Creatine kinase M-type can reversibly catalyzes the transfer of phosphate between ATP and various phosphogens. It plays a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.

## **Basic Information**

#### **Description**

Recombinant Human Creatine Kinase MM/CKMM Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys381) of human Creatine Kinase MM/CKMM (Accession #AAP35439.1) fused with a  $6\times$ His tag at the C-terminus.

## **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

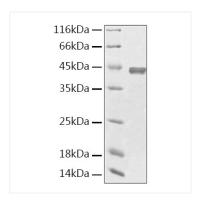
#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

#### **Contact**

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# **Validation Data**



Recombinant Human Creatine Kinase MM/CKMM Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.