

## Recombinant Human Creatine Kinase, Muscle/CKM Protein (His Tag)

Catalog No. PKSH032285

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

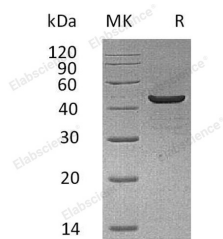
### Description

<b>Synonyms</b>	Creatine kinase M-type;Creatine kinase M chain;M-CK;CKM;CKMM
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Lys381
<b>Accession</b>	AAP35439.1
<b>Calculated Molecular Weight</b>	44.1 kDa
<b>Observed molecular weight</b>	46 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
<b>Reconstitution</b>	Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

### 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 catalyze the transfer of phosphate between ATP and various phosphagens. It plays a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.

### For Research Use Only