

Creatine kinase M/CKM Protein, Human, Recombinant (His)

General Information

Synonyms:	creatine kinase, muscle;M-CK;CKMM
Protein Construction:	A DNA sequence encoding the human CKM (AAH07462.1) (Met1-Lys381) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	AAH07462.1
Molecular Weight:	44.9 kDa (predicted); 45 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 100 mM HEPES, pH 7.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

CKM, also known as CK-MM, is mainly expressed in skeletal muscle. As the primary CK isoenzyme, it also can be detected in heart muscle. CKM is a subunit of creatine kinase (CK). CK is an enzyme expressed by various tissues and cell types. It catalyses the conversion of creatine and consumes adenosine triphosphate (ATP) to create phosphocreatine and adenosine diphosphate (ADP). In the cells, the cytosolic CK enzymes consist of two subunits, which can be either B (brain type) or M (muscle type).

Reference

Goldblatt H. 1969, Laboratory Investigation. 21 (2): 126-8.

Hekimsoy Zeliha. et al., 2005, Endocrine Research. 31 (3): 171-5.

Döring F. et al., 2011, Scand J Med Sci Sports. 21(6):841-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481