

Human CKM / CK-MM Protein (His Tag)

Catalog Number: 15076-H07E



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Biological Solution Specialist

General Information

Gene Name Synonym:

CKMM; M-CK; Ckmm; M-CK; MCK

Protein Construction:

A DNA sequence encoding the human CKM (AAH07462.1) (Met1-Lys381) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Kinase activity untested

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CKM consists of 396 amino acids and predicts a molecular mass of 44.9 KDa. It migrates as an approximately 45 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 100mM HEPES, pH 7.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

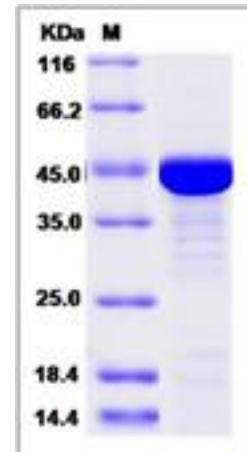
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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).

References

1. Goldblatt H. 1969, Laboratory Investigation. 21 (2): 126-8.
2. Hekimsoy Zeliha. et al., 2005, Endocrine Research. 31 (3): 171-5.
3. D'ring F. et al., 2011, Scand J Med Sci Sports. 21(6):841-5.

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