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## Product Data Sheet

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Product Name: CKM Human  
Cat. No.: GP22463  
Batch No.: 1

### Product Data

Purity	>98%	Source	Human Cardiac Tissues
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Creatine kinase M-type; EC 2.7.3.2; Creatine kinase M chain; M-CK; CKM; CKMM.		
Formulation	The CKM protein solution is in 50mM Tris and 2mM DTT, pH 7.5 containing 50% Glycerol.		

### Introduction

The three isoenzymes (MM, MB, and BB) are found in muscle, cardiac and brain tissues. These recombinant proteins are ideal for calibrating diagnostic instruments and researching neuromuscular diseases. Creatine Kinases can be used for indications in many neuromuscular applications. These disorders include cardiac disease, mitochondrial disorders, inflammatory myopathies, myasthenia, polymyositis, McArdle's disease, NMJ disorders, muscular dystrophy, ALS, hypo and hyperthyroid disorders, central core disease, acid maltase deficiency, myoglobinuria, rhabdomyolysis, motor neuron diseases, rheumatic diseases, and other that create elevated or reduced levels of Creatine Kinases.

### Stability

CKM although stable at 14°C for 1 week, should be stored at 26y-8°C .

### Background

Human CKM produced in Human Cardiac Tissues having a molecular mass of 82 kDa and PI 5.0-7.5. It's the skeletal muscle specific creatine kinase and is elevated in case of strenuous exercise and in degenerative muscle disease.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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