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## Product Data Sheet

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Product Name: CKMT1 Human  
Cat. No.: GP22464  
Batch No.: 1

### Product Data

Purity	>98%	Source	Pichia Pastoris.
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; CKMMITI.		
Formulation	CKMT1 contains 0.01M Tris-HCl, 0.075M NaCl, 10mM beta-mercaptoethanol, 50% glycerol, 0.1% sodium azide, pH 7.2.		

### Introduction

Creatine Kinase MM is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family.

### Biological Activity

The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1  $\mu$ mole creatine phosphate was 537IU/mg at 37 degrees celsius corresponding to a Specific Activity of 1,863ng/ml.

### Stability

CKMT1 although stable at 15°C for 7 days, should be stored below -18°C . Please prevent freeze-thaw cycles.

### Background

CKMT1 Human Recombinant without C-terminal Lysine on both chains produced in Pichia Pastoris is a glycosylated 47kDa polypeptide chain having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and

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reacts with polyclonal antibodies to MM Isoenzyme in ELISA. The CKMT1 is purified by proprietary chromatographic techniques.

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