Product Data Sheet

Product Name:	CKMT3 Human
Cat. No.:	GP22465
Batch No.:	1

Product Data

Purity	>98%	Source	Pichia Pastoris.
Phycical 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; CKMMITIII.		
Formulation	Each mg of protein contains 20mM Tris pH-8, 1mM EDTA and 1mM DTT.		

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.

Biological Activity

The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 ?mole creatine phosphate was 500 IU/mg at 37 degrees celsius corresponding to a Specific Activity of 2,000ng/ml.

Stability

CKMT3 although stable at 15°C for 7 days, should be stored below -18°C . Please prevent freeze-thaw cycles.

Background

CKMT3 Human Recombinant produced in Pichia Pastoris is a glycosylated polypeptide

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chain having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and reacts with polyclonal antibodies to MM Isoenzyme in ELISA.The CKMT3 is purified by proprietary chromatographic techniques.