



Human type 3 Creatine Kinase MM Isoenzyme (DAG278)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	CreatineKinase MM (CK-MM) Type 3 Isoenzyme Recombinant. Creatine Kinase MM isoenzymewith identical amino acid sequence to that of the native enzyme. CK-MM is a47 kDa dimeric protein comprised of 2 identical subunits. Purified in theenzymatically active fo
Antigen Description	Creatinekinase isoenzymes play a central role in energy transduction in tissues withlarge, fluctuating energy demands, such as skeletal muscle, heart, brain andspermatozoa.
Species	Human
Conjugate	Unconjugated
Applications	Suitablefor use in ELISA. Each laboratory should determine an optimum working titerfor use in its particular application. Other applications have not been testedbut use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	Lotspecific. Activity: Lot specific IU/mg total protein, One unit will transferone micromole of phosphate from creatine phosphate to ADP per minute at 37°C.Measured at 340nm as one equimolar amount of NADH produced by coupled reaction
Buffer	Tris-bufferedsaline (TBS), 10mM beta-mercaptoethanol, 50% glycerol, pH 7.0-7.5
Preservative	0.1% Sodium Azide
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction

The protein encoded by this gene 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.

Keywords

Creatine kinase-M; creatine kinase M chain; CKMM; M-CK; CKM; Creatine kinase M-type; creatine kinase, muscle; EC 2.7.3.2
