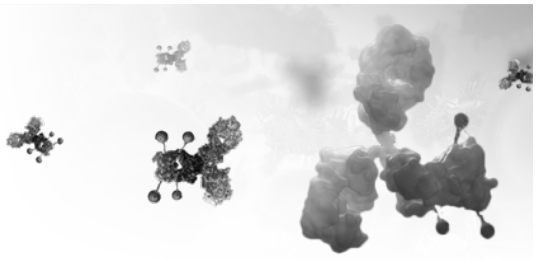

Human Creatine Kinase BB Isoenzyme (DAG279)

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

PRODUCT INFORMATION

Product Overview	CreatineKinase BB (CK-BB) Isoenzyme Recombinant. Full length Creatine Kinase BBisoenzyme with amino acid sequence identical to the native enzyme. CKBB is a47 kDa dimeric protein comprised of 2 identical B subunits. Purified in theenzymatically active form
Antigen Description	CreatineKinase MB consists of a dimer of nonidentical chains. With MM being the majorform in skeletal muscle and myocardium, MB existing in myocardium, and BBexisting in many tissues, especially brain. Creatine Kinase MB reversiblycatalyses the transfer of phosphate between ATP and various phosphogens. Thecreatine kinase isoenzymes play a central role in energy transduction intissues with large fluctuating energy demands such as skeletal muscle, heart,brain and spermatozoa.
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 beentested but use in such assays should not necessarily be excluded.
Format	Purified, Liquid
Concentration	Lotspecific. Activity: Lot specific IU/mg. One unit will transfer one micromoleof phosphate from creatine phosphate to ADP per minute at 37°C. Measured at340nm as one equimolar amount of NADH produced by coupled reaction.
Buffer	10mMBis-Tris-HCl, 0.5mM DTT, 0.5mM EDTA, 50% glycerol, pH 6.0 + 0.2
Preservative	None
Storage	2-8°C short term, -20°C long term

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BACKGROUND

Introduction	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized
Keywords	CKB; creatine kinase, brain; CKBB; creatine kinase B-type; creatine kinase-B; creatine kinase B chain; B-CK;

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