

32-2982: CKM Type-1 Recombinant Protein

Alternative Name : Creatine kinase M-type, EC 2.7.3.2, Creatine kinase M chain, M-CK, CKM, CKMM, CKMMIT1.

Description

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

Product Info

Amount :	50 µg
Purification :	Greater than 95.0% as determined by a) Analysis by RP-HPLCb) Analysis by SDS-PAGE
Content :	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 reacts with polyclonal antibodies to MM Isoenzyme in ELISA. The CKMT1 is purified by proprietary chromatographic techniques.
Storage condition :	CKMT1 although stable at 15°C for 7 days, should be stored below -18°C. Please prevent freeze-thaw cycles.

Application Note

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