

CKMT1 Human

Description: 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.

Catalog #:CKPS-278

For research use only.

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

Source: *Pichia Pastoris*.

Physical Appearance: Sterile Filtered colourless liquid formulation.

Purity: Greater than 95.0% as determined by a) Analysis by RP-HPLC b) Analysis by SDS-PAGE

Formulation:

CKMT1 contains 0.01M Tris-HCl, 0.075M NaCl, 10mM beta-mercaptoethanol, 50% glycerol, 0.1% sodium azide, pH 7.2.

Stability:

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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

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