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California Bioscience

Product Datasheet

Product Name	Recombinant Human Creatine Kinase MM Isoenzyme Type-III
Cata No	CB500093
Source	*Pichia Pastoris.*
Synonyms	Creatine kinase M-type, EC 2.7.3.2, Creatine kinase M chain, M-CK, CKM, CKMM, CKMMITIII.

Description

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.
CKMMITIII Human Recombinant produced in Pichia Pastoris is a glycosylated 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 CKMMITIII is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered colourless liquid formulation.

Biological Activity

The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 µmole creatine phosphate was 500 IU/mg at 37 degrees celsius.

Purity

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

Formulation

Each mg of protein contains 20mM Tris pH-8, 1mM EDTA and 1mM DTT.

Stability

CKMMITIII although stable at 15℃ for 7 days, should be stored desiccated below -18℃.
Please prevent freeze-thaw cycles.