Product: **Creatine Kinase MM Isoenzyme type I (CKMMITI), human, recombinant**
Catalog #: **12-4381**
Amount: **20 µg**

DESCRIPTION: Recombinant human Creatine Kinase MM Isoenzyme type I (rHuCKMMITI) 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. rHuCKMMITI, without C-terminal Lysine on both chains 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.

SOURCE: *Pichia pastoris*

PURITY: > 95%, as determined by:
(a) Analysis by RP-HPLC and anion-exchange FPLC
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuCKMMITI

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

FORM: Purified, in 20mM Tris pH-7.2, 10mM βME, 50% glycerol and 0.1% sodium azide

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

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

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