ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

□ Cat # RP-1060 Recombinant Human Creatine Kinase MB Isoenzyme Type-2 **Size**: □ 10 ug

CK-MB Type II possesses the naturally occurring carboxy-terminal amino acid lysine. This occurs during a myocardial infarct (MI or heart attack) when CK-MB Type II is released from damaged heart muscle, and the C-terminal lysine is cleaved in the blood stream, thus creating CK-MB Type I. This difference can be exploited in diagnosis of an MI.

Source: *Pichia Pastoris* CKMBITII 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 MB Isoenzyme in ELISA. The CKMBITII is purified by proprietary chromatographic techniques. Each mg of protein (15.8mg/ml) contains 20mM Tris-HCl, pH-6.8, 1mM EDTA and 1mM DTT.

Applications and Suggested Dilutions: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: CKMBITII although stable at 15°C for 7 days, should be stored desiccated below -18°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4ºC for ~1 week or aliquots in suitable size and store at -20ºC for long term storage. **Please prevent freeze-thaw cycles.**

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.

Activity: 880 u/mg (Kinetic Assay) (lot specific)

Specific Activity: 75 U/mg protein (lot specific)

Usage:
This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

This product is for in vitro research use only.

MSDS: This product is considered non-hazardous as defined by OSHA (CFR 1910.1200. Nov 25, 1983). It can be disposed of in the drain.

Related Material available for ADI

Catalog#	Prod Description
RP-1058	Recombinant (yeast) Human Creatine Kinase BB Isoenzyme
RP-1059	Recombinant (yeast) Human Creatine Kinase MB Isoenzyme Type-1
RP-1060	Recombinant (yeast) Human Creatine Kinase MB Isoenzyme Type-2
RP-1061	Recombinant (yeast) Human Creatine Kinase MM Isoenzyme Type-1
RP-1062	Recombinant (yeast) Human Creatine Kinase MM Isoenzyme Type-3
RP-1063	Human Creatine Kinase MM (CK-MM)

RP-1060-Human-CK-MB type-2 151120SV

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