

Recombinant Human Creatine Kinase MB Isoenzyme Type-II

Cat. No. CKMBITII-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CKMBITII 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.
Species	Human
Source	P.pastoris
Description	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.
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	Each mg of protein (15.8mg/ml) contains 20mM Tris-HCl, pH-6.8, 1mM EDTA and 1mM DTT.
Biological Activity	The biological activity measured by the enzymatic activity of Creatine phosphokinase

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procedure No.45-UV, 1IU-1 μ mole creatine phosphate was 892 IU/mg at 37 degrees celsius.

Storage

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

GENE INFORMATION**Synonyms**

Creatine Kinase MB Isoenzyme Type-II, CKMBITII, CKMBI, CKMB.

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