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Certificate of Analysis and Data Sheet

Recombinant Human Creatine Kinase BB Isoenzyme

Catalog No.
228-10242

Source:
Pichia Pastoris.

Synonyms

Creatine kinase B-type, EC 2.7.3.2, Creatine kinase B chain, B-CK, CKB, CKBB, CKBBI.

Introduction

Creatine Kinase BB is a cytoplasmic enzyme involved in energy homeostasis. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized.

Description

CKBBI 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 BB Isoenzyme in ELISA. The CKBBI is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered colourless liquid formulation.

Formulation

The protein (2.2 mg/ml) contains 10Mm Bis-Tris-HCl pH-6.2, 50% glycerol, 0.5mM EDTA and 0.5mM DTT.

Stability

CKBBI although stable at 15°C for 7 days, should be stored desiccated below -18°C.

Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**