
Product Data Sheet

Product Name: CKB Human, Pichia
 Cat. No.: GP22461
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Pichia Pastoris. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Creatine kinase B-type; EC 2.7.3.2; Creatine kinase B chain; B-CK; CKB; CKBB; CKBBI. | | |
| Formulation | CKBB Human contains 10Mm Bis-Tris-HCl pH-6.0, 50% glycerol, 0.5mM EDTA and 0.5mM DTT. | | |

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.

Biological Activity

The biological activity measured by the enzymatic activity of Creatine phosphokinase procedure No.45-UV, 1IU-1 μ mole creatine phosphate was 854 IU/mg at 37 degrees celsius corresponding to a Specific Activity of 1,171ng/ml.

Stability

CKBB should be stored below -18°C . Please prevent freeze-thaw cycles.

Background

CKBB Human Recombinant produced in Pichia Pastoris is a dimeric glycosylated full length polypeptide chain comprised of 2 identical B subunits and having an identical amino acid sequence compared to the native enzyme, purified under non-denaturing conditions and having a Mw of 47kDaThe CKBB is purified by proprietary

Caution: Product has not been fully validated for medical applications. For research use only.

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chromatographic techniques.

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