

Product: Creatine Kinase BB Isoenzyme (CKBBI), human, recombinant
Catalog #: 12-4370
Amount: 20 µg

DESCRIPTION:

Recombinant human Creatine Kinase BB Isoenzyme (rHuCKBBI)
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.
rHuCKBBI 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.

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 rHuCKBBI

DIMERS & AGGREGATES:

Less than 1% as determined by silver stained SDS-PAGE gel analysis

FORM:

Purified, in 10mM Tris pH-6.2, 50% glycerol, 0.5mM EDTA and 0.5mM DTT

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.

This product is sold for laboratory research use or further manufacturing only and should not be used for human therapeutic or diagnostic applications. The information presented is believed to be accurate; however, said information and products are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. Nothing disclosed herein is to be construed as a recommendation to use our products in violation of any patents. Under no circumstances shall ARP American Research Products, Inc. be liable for damages, whether consequential, compensatory, incidental or special, strict liability or negligence, breach of warranty or any other theory arising out of the use of the products available from ARP American Research Products, Inc. Nothing contained herein warrants that the use of the products will not infringe on the claims of any patents covering the product itself or the use thereof in combination with other products or in the operation of any process.