

HK2 Human

Description: HK2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (aa 1-917) fused to a 20 His tag at the N-terminal encoding the sequence of 937 amino acids in total and having a molecular mass of 104.1 kDa. HK2 is purified by proprietary chromatographic techniques.

Catalog #: PKPS-234

For research use only.

Synonyms: Hexokinase-2, EC 2.7.1.1, HK2, Hexokinase type II, HK II, Muscle form hexokinase, HXK2, DKFZp686M1669.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MIASHLLAYF FTELNHDQVQ
KVDQYLYHMR LSETLLEIS KRFRKEMEG LGATTHPTAA VKMLPTFVRS TPDGTEHGEF
LALDLGGTNF RVLWVKVTDN GLQKVEMENQ IYAIPEIDMR GSGTQLFDHI AECLANFMDK
LQIKDKKLPL GFTFSFPCHQTKLDESFLVS WTKGFKSSGV EGRDVVALIR KAIQRRGDFD
IDIVAVVNDT VGT

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The protein (1mg/ml) contains 20mM Tris-HCl pH8.0 and 10% glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. Hexokinase 2 is the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells.

Biological Activity:

Specific activity is 3-4 units/ml obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. In the coupled mode, one unit will produce 1.0 umole of NADPH per minute as glucose is phosphorylated by ATP at pH 7.4 at 30C.

Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

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