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**Hexokinase 2 Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP02442**

3th Edition

**Synonyms:**Hexokinase type II, Muscle form hexokinase, HK2

**Description:**Hexokinase is the first enzyme in the glycolytic pathway, catalyzing the transfer of a phosphoryl group from ATP to glucose to form glucose-6-phosphate and ADP. In mammals, four distinct enzymes-types 1 to 4 hexokinases-have been identified. The enzyme is found in most cells, but there is tissue specificity for the particular type of hexokinase. Hexokinase2 is found in the skeletal muscle and includes hydrophobic N-terminal sequence capable of targeting the hexokinase to mitochondria.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**Molecular Weight:**104.1kDa (937aa)

**Sequences:**

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MGSSHHHHHSSGLVPRGSHMIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATT
HPTAAVKMLPTFVRSTPDGTEHGFEFLALDLGGTNFRVLVWVKTNDGLQKVEMENQIYAIPEDIMRSGSQFLFDHIA
ECLANFMDKLQIKDKKLPLGFTFSFPCHQTKLDESFLVSWTKGFKSSGVEGRDVVALIRKAIQRRGDFDIDIVAVVND
TVGTMTCGYDDHNCEIGLIVGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQEIDM
GSLNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDIEGEKDGIRKAREVLMRLGL
DPTQEDCVATHRICQIVSTRSASLCAATLA AVLQRIKENKGEERLRSTIGVDG SVYKHPHFAKRLHKT VRRRLVPGC
DVRFLRSEDGSGKGAAMVTAVAYRLADQHRARQKTLEHLQLSHDQLLEVKRRMKVEMERGLSKETHASAPVKML
PTYVCATPDGTEKGDFLALDLGGTNFRVLLVVRNGKWGGVEMHNKIYAIPQEVMHGTGDELFDHIVQCIADFLEY
MGMKGVSLPLGFTFSFPCQQNSLDESILLKWTGFKASGCEGEDVVTLLKEAIHRREEFDLDVVAVVNDTVGTMMT
CGFEDPHCEVGLIVGTGSNACYMEEMRNVELVEGEEGRMCVNMEWGAFGDNGCLDDFRTEFDVAVDELSSLNPG
KQRFKEMISGMYLGEIVRNILIDFTKRGLLFRGRISERLKTRGIFETKFLSQIESDCLALLQVRAILQHLGLESTCDDSII
VKEVCTVVARAAQLCGAGMAAVDRIRENRGLDALKVTVGVDGTYKLHPHFAKVMHETVKDLAPKCDVSFLQS
EDGSGKGAALITAVACRIREAGQR
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**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.