

# Human HK1 Recombinant Protein



RPPB2547

## Product Information Protein Information

**Product SKU:**

RPPB2547

**Accession:**

P19367

**Host:**

Escherichia Coli.

**Protein description:**

HK1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain fused to a 20 amino acids His tag at the N-terminal encoding the sequence of 937 amino acids and having a molecular mass of 104.6 kDa. HXK1 is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile filtered colorless solution.

**Synonyms:**

Hexokinase-1, EC 2.7.1.1, Hexokinase type I, HK I, Brain form hexokinase, HK1-ta, HK1-tb, HXK1, HK1.

**Formulation:**

The protein (1mg/ml) contains 20mM Tris-HCl (pH 8.0) and 10% glycerol.

**Purity:**

Greater than 90.0% as determined by SDS-PAGE.

**Stability:**

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.

**Amino Acid Sequence:**

MGSSHHHHHH SSSLVPRGSH MIAAQLLAY FTELKDDQVK KIDKYLYAMR LSDETLDIM TRFRKEMKNG  
LSRDFNPTAT VKMLPTFVRS IPDGSEKGF IALDLGGSSF RILRVQVNHE KNQNVHMESE VYDTPENIVH  
GSGSQLFDHV AECLGDFMEK RKIKDKKLPV GFTSFPCQQ SKIDEAILIT WTKRFKASGV EGADVVKLLN  
KAIKRGRDYD ANIVAVVNDT VGTMMTCGYD DQHCEVGLII GTGTNACYME ELRHIDLVEG DEGRMCINTE  
WGAFGDDGSL EDIRTEFDRE IDRGSINPGK QLFKEMVSGM YLGELVRLIL VKMAKEGLLF EGRITPELLT  
RGKFNTSDVS AIEKNKEGLH NAKEILTRLG VEPSDDDCVS VQHVCTIVSF RSANLVAATL GAILNRLRDN  
KGTPLRRTTV GVDGSLYKTH PQYSRRFHK LRLVPSDV RFLSESGSG KGAAMVTAVA YRLAEQHRQI  
EETLAHFHLT KDMLLEVKKR MRAEMELGLR KQTHNNAVVK MLPSFVRRTP DGTENGDFLA LDLGGTNFRV  
LLVKIRSGKK RTVEMHNKIY AIPIEIMQGT GEELFDHIVS CISDFLDYMG IKGPRMPLGF TFSFPCQQTSLDAGILITWT  
KGFKATDCVG HDVVTLLRDA IKRREEFDLD VAVVNDTVG TMMTCAYEEP TCEVGLIVGT GSNACYMEEM  
KNVEMVEGDQ GQMCINMEWG AFGDNGCLDD IRTHYDRLVD EYSLNAGKQR YEKMISGMYL GEIVRNILID  
FTKKGFLFRG QISETLKTRG IFETKFLSQI ESDRLALLQV RAILQLGLN STCDDSLVK TVCGVVSRRRA AQLCGAGMAA  
VVDKIRENRG LDRLNVTGV DGTLYKLPH FSRIMHQT VK ELSPKCNVSF LLEDGSGK AALITAVGVR LRTEASS.

**Biological Activity:**

Specific activity is >2 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 25C.