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**Hexokinase 1 Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP02441**

3th Edition

**Synonyms:**Hexokinase type I, Brain form hexokinase

**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. Hexokinase1 is found in the adipose tissue and liver and encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria

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

**Molecular Weight:**104.6kDa (937aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMIAAQLLAYFTELKDDQVKKIDKLYAMRLSDETLIDIMTRFRKEMKNGLSRDFN  
PTATVKMLPTFVRSIPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTPENIVHGSGSQLFDHVAE  
CLGDFMEKRKIKDKKLPVGFTFSPFCQQSKIDEAILITWTKRFKASGVEGADVVKLLNKAIKKRGDYDANIVAVVNDT  
VGTMMTCGYDDQHCEVGLIIGTGTNACYMEELRHIDLVEGDEGRMCINTEWGAFGDDGSLEDIRTEFDREIDRGS  
NPGKQLFEKMOVSGMYLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEKNKEGLHNAKEILTRLGVEPS  
DDDCVSVQHCTIVSFRSANLVAATLGAILNRLRDNKGTPRLRRTTVGVDSLYKTHPQYSRRFHKTLRRLVPDSDV  
RFLLESSESGKGAAMVTAVAYRLAEQHRQIEETLAHFHLTKDMLLEVKKRMRAEMELGLRKQTHNNAVVKMLPSF  
VRRTPDGTENGDFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIYAIPIEIMQGTGEELFDHIVSCISDFLDYMGIKGP  
RMPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVGHVVTLLRDAIKRREEFDLDVVAVVNDTVGTMMTCAYEEP  
TCEVGLIVGTGSNACYMEEMKNVEMVEGDQGMCMINMEWGAFGDNGCLDDIRTHYDRLVDEYSLNAGKQRYEK  
MISGMYLGEIVRNILIDFTKKGFLFRGQISETLKTRGIFETKFLSQIESDRLALLQVRAILQLGLNSTCDDSILVKTVC  
VVSRRAAQLCGAGMAAVVDKIRENRGLDRLNVTVGVDGTYKLHPHFSRIMHQTVKELSPKCNVSFLLEDGSGK  
GAALITAVGVRLRTEASS

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 µg 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.