

Hexokinase 3 Human, His-tagged, Recombinant, E.coli

Cat.NO.: TP02443

3th Edition

Synonyms: Hexokinase type III, HK III

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. Hexokinase3 lacks the hydrophobic N-terminal sequence critical for targeting to mitochondria.

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

Molecular Weight: 101.1kDa (943aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMDSIGSSGLRQGEETLSCSEEGLPGPSDSSELVQECLQQFKVTRAQLQQIQASLL
GSMEQALRGQASPAPAVRMLPTYVVGSTPHGTEQGDFVVLELGATGASLRVLWVTLTGIEGHRVEPRSQEFVIPQE
VMLGAGQQLFDFAAHCLSEFLDAQPVNKQGLQLGFSFSFPCHQTGLDRSTLISWTKGFRCSGVEGQDQVQLLRDA
IRRQGAYNIDVVAVVNDTVGTMMGCEPGVRPCEVGLVVDGTNACYMEEARHVAVLDEDRGRVCVSVWGSFSD
DGALGPVLTTFDHTLDHESLNPGAQRFEKMIGGLYLGEVLRLVLAHLARCGVLFGGCTSPALLSQGSILLEHVAEME
DPSTGAARVHAILQDLGLSPGASDELVQHVCAAVCTRAAQLCAAALAVLSCLQHSREQQTLQVAVATGGRVCE
RHPRFCSVLQGTVMMLLAPECDVSLIPSDVGGGRGVAMVTAVAARLAAHRRLEETLAPFRLNHDQLAAVQAQMRK
AMAKLRGEASSLRMLPTFVRATPDGSEGRDFLALDLGGTNFRVLLVRVTTGVQITSEIYSIPETVAQGGGQQLFDH
IVDCIVDFQKQGLSGQSLPLGFTFSFPCRQLGLDQGILLNWTGFKASDCEGQDVVSLREAITRRQAVELNVVAI
VNDTVGTMMSCGYEDPRCEIGLIVGTGTNACYMEELRNVAGVPGDSGRMCINMEWGAFGDDGSLAMLSTRFDAS
VDQASINPGKQRFKEMISGMYLGEIVRHILLHLTSLGVLFGRQQIQRLQTRDIFKTKFLSEIESDSLALRQVRAILEDL
GLPLTSDDALMVLEVCQAVSQRAAQLCGAGVAAVVEKIRENRGLEELAVSVGVDGTLYKLHPRFSSLVAATVRELA
PRCVTFLQSEDGSGKGAALVTAVACRLAQLTRV

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.