

Hexokinase-2 Human Recombinant

Item Number	rAP-1154
Synonyms	Hexokinase-2, EC 2.7.1.1, HK2, Hexokinase type II, HK II, Muscle form hexokinase, HXK2, DKFZp686M1669.
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.HXK2 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P52789
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MIASHLLAYF FTELNHDQVQ KVDQYLYHMR LSEDTLLEIS KRFRKE-MEKG LGATTHPTAA VKMLPTFVRS TPDGTEHGEF LALDLGGTNF RVLWVKVTDN GLQKVEMENQ IYAIPEDIMR GSGTQLFDHI AECLANFMDK LQIKDKKLPL GFTFSFPCHQTKLDESFLVS WTKGFKSSGV EGRDVVALIR KAIQRRGDFD IDIVAVVNDT VGTMMTCGYD DHNCEIGLIV GTGSNACYME EMRHID-MVEG DEGRMCINME WGAFGDDGSL NDIRTEFDQE IDMGSLNPGK QLF EK MISGM YMGE L VRLIL VKMAKEELLF GGKLSPELLN TGRFETKDISDIEGEKDGIR KAREVLMRLG LDPTQEDCVA THRICQIVST RSASLCAATL AAVLQRIKENKGEERLRSTI GVDGSVYKKH PHFAKRLHKT VRRLVPGCDV RFLRSEDGSG KGAAMVTAVAYRLADQHRAR QKTLEHLQLS HDQLLEVKRR MKVEMERGLS
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. 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.
Formulation and Purity	The protein (1mg/ml) contains 20mM Tris-HCl pH8.0 and 10% glycerol. Greater than 85.0% as determined by SDS-PAGE.
Application	
Solubility	
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
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**