

Product datasheet for TP309482L

Hexokinase II (HK2) (NM_000189) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human hexokinase 2 (HK2), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC209482 representing NM_000189

Clone or AA **Red**=Cloning site **Green**=Tags(s)

Sequence:

MIASHLLAYFFTELNHDQVQKVDQYLYHMRLSDETLLEISKRFRKEMEKGLGATTHPTAAVKMLPTFVRS
TPDGTEHGEFLALDLGGTNFRVLWVKVTDNGLQKVEMENQIYAIPEDIMRSGTQLFDHIAECLANFMDK
LQIKDKKLPLGFTFSFPCHQTKLDESFLVSWTKGFKSSGVEGRDVVALIRKAIQRRGDFDIDIVAVNDT
VGTMMTCGYDDHNCEIGLIVGTGSNACYMEEMRHIDMVEGDEGRMCINMEWGAFGDDGSLNDIRTEFDQE
IDMGS LNPGKQLFEKMISGMYMGELVRLILVKMAKEELLFGGKLSPELLNTGRFETKDISDIEGEKDGIR
KAREVLMRLGLDPTQEDCVATHRICQIVSTRSASLCAATLA AVLQRIKENKGEERLRSTIGVDGSVYKKH
PHFAKRLHKT VRR LVP GCDVRFLRSEDGSGKGAAMVTAVAYRLADQHRARQKTLEHLQLSHDQLLEV KRR
MKVEMERGLSKETHASAPVKMLPTYVCATPDGTEKGDFLALDLGGTNFRVLLVRVRNGKWGGVEMHNKIY
AIPQEV MHGTGDELFDHIVQCIAD FLEYMGMGKGVSLPLGFTFSFPCQQNSLDESILLKWTKGFKASGCEG
EDVWTLLEKAIHRREEFDLDVAVVNDTVGTM MTCGFEDPHCEVGLIVGTGSNACYMEEMRNVELVEGEE
GRMCVNMEWGAFGDNGCLDDFRTEFDVA VDELSLNPGKQRF EK MISGMYLGEIVRNILIDFTKRGLLFRG
RISERL KTRGIFETKFLSQIESDCLALLQVRAILQHLGLESTCDDSIIVKEVCTVARRAAQLCGAGMAA
VVDRIENRGLDALKVTVGVDGTLYKLHPHFAKVMHETVKDLAPKCDVSFLQSEDGSGKGAALITAVACR
IREAGQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 102.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

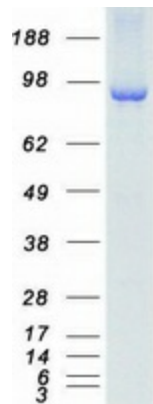
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000180
Locus ID:	3099
UniProt ID:	P52789
RefSeq Size:	7109
Cytogenetics:	2p12
RefSeq ORF:	2751
Synonyms:	HKII; HXK2
Summary:	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 2, the predominant form found in skeletal muscle. It localizes to the outer membrane of mitochondria. Expression of this gene is insulin-responsive, and studies in rat suggest that it is involved in the increased rate of glycolysis seen in rapidly growing cancer cells. [provided by RefSeq, Apr 2009]
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus

Product images:



Coomassie blue staining of purified HK2 protein (Cat# [TP309482]). The protein was produced from HEK293T cells transfected with HK2 cDNA clone (Cat# [RC209482]) using MegaTran 2.0 (Cat# [TT210002]).