

Product datasheet for TP307021

Hexokinase Type III (HK3) (NM_002115) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human hexokinase 3 (white cell) (HK3), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207021 representing NM_002115 Red =Cloning site Green =Tags(s)

MDSIGSSGLRQGEETLSCSEGLPGPSDSELVQECLQQFKVTRAQLQQIQASLLGSMEQALRGQASPAP
AVRMLPTYVVGSTPHGTEQGDFFVLELGATGASLRVLWVTLTGIEGHRVEPRSQEFVIPQEVMLGAGQQLF
DFAAHCLSEFLDAQPVNKQGLQLGFSFSPCHQTGLDRSTLISWTKGFRCSGVEGQDVVQLLRDAIRRQG
AYNIDVAVVNDTVGTMMGCEPGVRPCEVGLVWDTGTNACYMEEARHVAVLDEDGRVVCVSEVWGSFSD
GALGPVLTTFDHTLDHESLNPGAQRFEKMIGGLYL GELVRLVLAHLARCGVLFGGCTSPALLSQGSILLE
HVAEMEDPSTGAARVHAILQDLGLSPGASDVELVQHVCAAVCTRAAQLCAAALAAVLSCLQHSREQQTLQ
VAVATGGRVCERHPRFCSVLQGTVMMLAPECDVSLIPVDGGGRGVAMVTAVAARLAAHRRLEETLAPF
RLNHDQLAAVQAQMRKAMAKGLRGEASSLRMLPTFVRATPDGSERGDFLALDLGGTNFRVLLVRVTTGVQ
ITSEIYIPETVAQSGSQQLFDHIVDCIVDFQKQKGLSGQSLPLGFTFSFPCRQLGLDQGILLNWTGKFK
ASDCEGQDVVSLREAITRRQAVELNVVAIVNDTVGTMMSCGYEDPRCEIGLIVGTGTNACYMEELRNVA
GVPGDSGRMCINMEWGAFGDDGSLAMLSTRFDASVDQASINPGKQRFKMGMYLGEIVRHILLHLTSL
GVLFRGQQIQRLQTRDIFKTKFLSEIESDSLALRQVRAILEDLGLPLTSDDALMVLEVCQAVSQRAAQLC
GAGVAAVVEKIRENRGLEELAVSVGVDGTLYKLHPRFSSLVAATVRELAPRCVVTFLQSEDGSGKGAALV
TAVACRLAQLTRV

TRRLEQKLISEEDLAANDILDYKDDDDKV

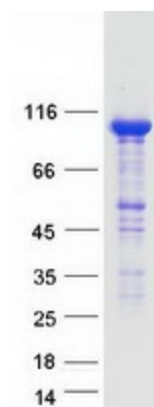
Tag:	C-Myc/DDK
Predicted MW:	98.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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:	<u>NP_002106</u>
Locus ID:	3101
UniProt ID:	<u>P52790, A0A024R7R1</u>
RefSeq Size:	3062
Cytogenetics:	5q35.2
RefSeq ORF:	2769
Synonyms:	HKIII; HXK3
Summary:	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes hexokinase 3. Similar to hexokinases 1 and 2, this allosteric enzyme is inhibited by its product glucose-6-phosphate. [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 HK3 protein (Cat# TP307021). The protein was produced from HEK293T cells transfected with HK3 cDNA clone (Cat# [RC207021]) using MegaTran 2.0 (Cat# [TT210002]).