

Product datasheet for PH307021

Hexokinase Type III (HK3) (NM_002115) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HK3 MS Standard C13 and N15-labeled recombinant protein (NP_002106)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207021
Predicted MW:	98.8 kDa
Protein Sequence:	>RC207021 representing NM_002115 Red=Cloning site Green=Tags(s)

MDSIGSSGLRQGEETLSCSEGLPGPSDSELVQECLQQFKVTRAQLQQIQASLLGSMEQALRGQASAP
AVRMLPTYVVGSTPHGTEQGDFVLELGATGASLRVLWVLTGIEGHRVPEPRSQEFVIPQEVMLGAGQQLF
DFAAHCLSEFLDAQPVNKQQLQGF SFPCHQTGLDRSTLISWTKGFRCSGVEGQDVVQLLRDAIRRQG
AYNIDVVAVVNDTVGTMGCEPGVRPCEVGLVVDGTNACYMEEARHVAVLDEDGRVCVSVWGSFSDD
GALGPVLTTFDHTLDHESLNPGAQRFEKMI GGLYL GELVRLVLAHLARCGVLFGGCTSPALLSQGSILLE
HVAEMEDPSTGAARVHA ILQDLGLSPGASDVVELVQHVCAAVCTRAAQLCAAALAVLSCLQHSREQQTLQ
VAVATGGRVCERHPRFCV LQGTVM LLAPECDVSLIPSDVGGGRGVAMVTAARLAHRRLLLEETLAPF
RLNHDQLAAVQAQMRKAMAKGLRGEASSLRMLPTFVRATPDGSEGRDFLALDLGGTNFRVLLVRVTTGVQ
ITSEIYSIPETVAQSGGQQLFDHIVDCIVDFQKQGLSGQSLPLGFTFSFPCRQLGLDQGILLNWTGFK
ASDCEGQDVVSLRLREAITRRQAVELNVVAIVNDTVGTMMSCGYEDPRCEIGLIVGTNACYMEEELRNVA
GVPDGRMCMINMEWAFGDDGSLAMLSTRFDASVDQASINPGKQRFKMI SGMVLEIVRHILLHLTSL
GVLFRGQQIQRLQTRDIFKTKFLSEIESDSLALRQVRAILEDLGLPLTSDDALMVLEVCQAVSQRAAQLC
GAGVAAVVEKIRENRGLEELAVSVGVDGTLYKLNHPRFSSSLVAATVRELAPRCVVTFLQSEDGSGKGAALV
TAVACRLAQLTRV

TRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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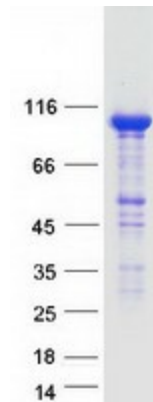
RefSeq:	NP_002106
RefSeq Size:	3062
RefSeq ORF:	2769
Synonyms:	HKIII; HXK3
Locus ID:	3101
UniProt ID:	P52790 , A0A024R7R1
Cytogenetics:	5q35.2

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]).