

Product datasheet for TP511163

Hkdc1 (NM_145419) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse hexokinase domain containing 1 (Hkdc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR211163 representing NM_145419
Red=Cloning site **Green**=Tags(s)

MFAVHLVAFYFTKLKEDQIKKVDRLFYHMRLSDETLVDIMARFQAEMEKGLGKDTNPTASVKMLPTFVRA
IPDGSENGFLSLDLGGSKFRVLKVQVSQEGQQNVQMESQFYMPNEITRNGTELFDYVADCLADFMKT
KNLTHKKLPLGFTFSFPCRQNKLEEGVLLSWTKKFKARGVQDQTDVWNRLATAMKKHKDLVDLALVNDT
VGTMMTCAYDDPNCEVGVIIIGTGTNACYMEDMSNIDLVEGDEGRMCINTEWGAFGDDGALEDIRTEFDRE
LDLGSNPGKQLFEKMISGLYMGELVRLILLKMAKVGLLFGGAKSSALHTKGKIETQHVAAMEMSKEGLA
NTREILVDLGLEPSESDCIAVQHVCIVSFRSANLCAALATILTRLRENKKLARLRTTVGMDGTLYKTH
PQYPKRLHKVRRLLVPCDVRFLLESSEGSTKGAAMVTAVASRVQAQRKQIDKVLALFQLTREQLLGVDRK
MRAELEYGLKKKTHSLATVKMLPTYVYGMPDGTGKGFALDLGGTNFRVLLVKIRRRSVRMYNKIFAIP
LEIMQGTGEELFDHIVQCIADFLDYMGLKGAQLPLGFTFSFPCRQTCIDKGLVGVWTKGFKATDCEGEDV
VDMLREAIKRRNEFDLDIVAINDTVGTMMTCGYEDPRCEIGLIAGTGSNVCYMEEMRNIELVDGDEGRM
CVNTEWGGFGDNGCIDDIRTQYDKEVDEGSLNAGKQRYEKMTSGMYLGEIVRRILIDLTRQGLLFRGQIS
ERLRTGIFETKFLSQIESDRLALLQVRRILQQLGLDSTCEDSIWKEVCGAVSRRAAQMCAGMAAIVE
KRREDQGLQHFKVTVGVDGTLYKLHPHFSRILQETVKELAPQCDVTFMLEDGSGKGAALITAVAKRLQQ
PRKDI

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 102.7 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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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 after receiving vials.
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_663394
Locus ID:	216019
UniProt ID:	Q91W97
RefSeq Size:	3497
Cytogenetics:	10 B4
RefSeq ORF:	2745
Synonyms:	BC016235
Summary:	Catalyzes the phosphorylation of hexose to hexose 6-phosphate, although at very low level compared to other hexokinases (By similarity). Has low glucose phosphorylating activity compared to other hexokinases (By similarity). Involved in glucose homeostasis and hepatic lipid accumulation (PubMed:30543855). Required to maintain whole-body glucose homeostasis during pregnancy; however additional evidences are required to confirm this role (PubMed:25648650, PubMed:27459389).[UniProtKB/Swiss-Prot Function]