

Recombinant Human HK3, His-tagged

Cat. No. HK3-29229TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human Hexokinase Type III fused to His-tag at N-terminus; amino acids 1-923 , 101.1kDa.
Species	Human
Source	E.coli
ProteinLength	1-923 a.a.
Description	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.
Conjugation	HIS
Form	Liquid
Purity	Protein A purified
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MDSIGSSGLR QGEETLSCSE EGLPGPSDSS
 ELVQECLQQF KVTRAQLQQI QASLLGSMEQ ALRGQASPAP AVRMLPTYVG
 STPHGTEQGD FVVLELGATG ASLRVLWVTL TGIEGHRVEP RSQEFVIPQE
 VMLGAGQQLF DFAAHCLSEF LDAQPVNKQG LQLGFSFSFP CHQTGLDRST
 LISWTKGFRG SGVEGQDVVQ LLRDAIRRQG AYNIDVVAVV NDTVGTMMGC
 EPGVRPCEVG LVVDTGTNAC YMEEARHVAV LDEDRGRVCV SVEWGSFSDD
 GALGPVLTTF DHTLDHESLN PGAQRFEKMI GGLYLDELVR LVLHLARCG
 VLFGGCTSPA LLSQGSILLE HVAEMEDPST GAARVHAILQ DLGLSPGASD
 VELVQHVCAA VCTRAAQLCA AALAAVLSCS QHSREQQTLQ VAVATGGRVC
 ERHPRFCSVL QGTVMLLAPE CDVSLIPSVD GGGRGVAMVT AVAARLAAHR
 RLLEETLAPF RLNHDQLAAV QAQMRKAMAK GLRGEASSLR MLPTFVRATP
 DGSEGRDFA LDLGGTNFRV LLVRVTTGVQ ITSEIYSIPE TVAQGSQQQL
 FDHIVDCIVD FQQKQGLSGQ SLPLGFTFSF PCRQLGLDQG ILLNWTGFK
 ASDCEGQDVV SLLREAITRR QAVELNVVAI VNDTVGTMMMS CGYEDPRCEI
 GLIVGTGTNA CYMEELRNVA GVPGDSEGRMC INMEWGAFGD DGSLAMLSTR
 FDASVDQASI NPGKQRFKEM ISGMYLGEIV RHILLHLTSL GVLFRGQQIQ
 RLQTRDIFKT KFLSEIESDS LALRQVRAIL EDLGLPLTSD DALMVLEVCO
 AVSQRAAQLC GAGVAAVVEK IRENRGLEEL AVSVGVDTGL YKLHPRFSSL
 VAATVRELAP RCVVTFLLQSE DGSGKGAALV TAVACRLAQL TRV

Sequence Similarities Belongs to the hexokinase family.

Full Length Full L.

GENE INFORMATION

Gene Name [HK3 hexokinase 3 \(white cell\) \[Homo sapiens \]](#)

Official Symbol [HK3](#)

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Synonyms	HK3; hexokinase 3 (white cell); hexokinase-3;
Gene ID	3101
mRNA Refseq	NM_002115
Protein Refseq	NP_002106
MIM	142570
Uniprot ID	P52790
Chromosome Location	5q35.2
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Butirosin and neomycin biosynthesis, organism-specific biosystem; Butirosin and neomycin biosynthesis, conserved biosystem; Carbohydrate digestion and absorption, organism-specific biosystem;
Function	ATP binding; enzyme binding; hexokinase activity; hexokinase activity; hormone binding;