Recombinant Human SHPK Protein, GST-Tagged

Cat. No. SHPK-1329H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CARKL full-length ORF (NP_037408.2, 1 a.a. - 478 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene has weak homology to several carbohydrate kinases, a class of proteins involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane. Sequence variation between this novel gene and known carbohydrate kinases suggests the possibility of a different substrate, cofactor or changes in kinetic properties distinguishing it from other carbohydrate kinases. The gene resides in a region commonly deleted in cystinosis patients, suggesting a role as a modifier for the cystinosis phenotype. The genomic region is also rich in Alu repetitive sequences, frequently involved in chromosomal rearrangements. [provided by RefSeq, Jul 2008]
Molecular Mass	77.9 kDa
AA Sequence	MAARPITLGIDLGTTSVKAALLRAAPDDPSGFAVLASCARAARAEAAVESAVAGPQG REQDVSRILQALHECLAALPRPQLRSVVGIGVSGQMHGVVFWKTGQGCEWTEGGI TPVFEPRAVSHLVTWQDGRCSSEFLASLPQPKSHLSVATGFGCATIFWLLKYRPEFL KSYDAAGTIHDYVVAMLCGLPRPLMSDQNAASWGYFNTQSQSWNVETLRSSGFPV HLLPDIAEPGSVAGRTSHMWFEIPKGTQVGVALGDLQASVYSCMAQRTDAVLNISTS

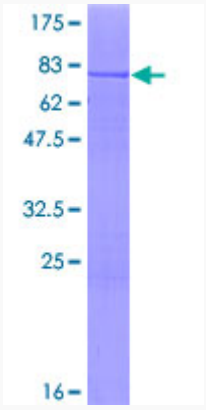
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	VQLAASMPSGFQPAQTPDPTAPVAYFPYFNRTYLGVAASLNGGNVLATFVHMLVQ WMADLGLEVEESTVYSRMIQAAVQQRDTHLTITPTVLGERHLPDQLASVTRISSSDL SLGHVTRALCRGIVQNLHSMLPIQQLQEWGVERVMGSGSALSRNDVLKQEVQRAF PLPMSFGQDVDAAVGAALVMLRRHLNQKES
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	SHPK sedoheptulokinase [Homo sapiens]
Official Symbol	SHPK
Synonyms	SHPK; sedoheptulokinase; carbohydrate kinase like, CARKL; SHK; carbohydrate kinase-like protein; CARKL; FLJ32478;
Gene ID	23729
mRNA Refseq	NM_013276
Protein Refseq	NP_037408
MIM	605060

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UniProt ID	Q9UHJ6
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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