

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 REQDVSRILQALHECLAALPRPQLRSVVGIGVSGQMHGCVFWKTGQGCEWTEGGI TPVFEPRAVSHLVTWQDGRCSSEFLASLPQPKSHLSVATGFGCATIFWLLKYRPEFL KSYDAAGTIHDYVAMLCGLPRPLMSDQNAASWGYFNTQSQSWNVETLRSSGFPV HLLPDIAEPGSVAGRTSHMWFEIPKGTQVGVALGDLQASVYSCMAQRTDAVLNISTS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VQLAASMPSGFQPAQTPDPTAPVAYFPYFNRTYLGVAASLNGGNVLATFVHMLVQ
WMADLGLEVEESTVYSRMIQAAVQQRDTHLTITPTVLGERHLPDQLASVTRISSDL
SLGHVTRALCRGIVQNLHSMPLIQQQLQEWGVERVMGSGSALSARNDLVKQEVQRAF
PLPMSFGQDVDAVGAALVMLRRHLNQKES

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

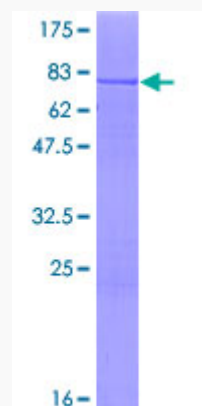
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UniProt ID

Q9UHH6

Quality Control
Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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