



# Recombinant Human Sedoheptulokinase (SHPK)

<b>Product Code</b>	CSB-EP021278HU-B
<b>Abbreviation</b>	SHPK
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9UHJ6
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	AARPITLGI DLGTTSVKAA LLRAAPDDPS GFAVLASCAR AARAEAAVES AVAGPQGREQ DVSRILQALH ECLAALPRPQ LRSVVGIGVS GQMHGCVFWK TGQGCEWTEG GITPVFEPRA VSHLVTWQDG RCSSEFLASL PPKSHLSVA TGFGCATIFW LLKYRPEFLK SYDAAGTIHD YVAMLCGLP RPLMSDQNA SWGYNFNTQSQ SWNVETLRSS GFPVHLLPDI AEPGSVAGRT SHMWFEIPKG TQVGVALGDL QASVYSCMAQ RTDAVLNIST SVQLAASMPS GFQPAQTPDP TAPVAYFPYF NRTYLGVAAS LNGGNVLATF VHMLVQWMAD LGLEVEESTV YSRMIQAAVQ QRDTHLTIP TVLGERHLPD QLASVTRISS SDLSLGHVTR ALCRGIVQNL HSMLPIQLQ DWGVERVMGS GSALSRNDVL KQEVQRAFPL PMSFGQDVDA AVGAALVMLR RHLNQKES
<b>Source</b>	E.coli
<b>Target Names</b>	SHPK
<b>Protein Names</b>	Recommended name: Sedoheptulokinase Short name= SHK EC= 2.7.1.14 Alternative name(s): Carbohydrate kinase-like protein
<b>Expression Region</b>	2-478
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Target Details</b>	This protein 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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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