Recombinant Human Sedoheptulokinase (SHPK)

Product Code	CSB-YP021278HU
Abbreviation	SHPK
Storage	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.
Uniprot No.	Q9UHJ6
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	AARPITLGI DLGTTSVKAA LLRAAPDDPS GFAVLASCAR AARAEAAVES AVAGPQGREQ DVSRILQALH ECLAALPRPQ LRSVVGIGVS GQMHGVVFWK TGQGCEWTEG GITPVFEPRA VSHLVTWQDG RCSSEFLASL PQPKSHLSVA TGFGCATIFW LLKYRPEFLK SYDAAGTIHD YVVAMLCGLP RPLMSDQNAA SWGYFNTQSQ SWNVETLRSS GFPVHLLPDI AEPGSVAGRT SHMWFEIPKG TQVGVALGDL QASVYSCMAQ RTDAVLNIST SVQLAASMPS GFQPAQTPDP TAPVAYFPYF NRTYLGVAAS LNGGNVLATF VHMLVQWMAD LGLEVEESTV YSRMIQAAVQ QRDTHLTITP TVLGERHLPD QLASVTRISS SDLSLGHVTR ALCRGIVQNL HSMLPIQQLQ DWGVERVMGS GSALSRNDVL KQEVQRAFPL PMSFGQDVDA AVGAALVMLR RHLNQKES
Source	Yeast
Target Names	SHPK
Protein Names	Recommended name: Sedoheptulokinase Short name= SHK EC= 2.7.1.14 Alternative name(s): Carbohydrate kinase-like protein
Expression Region	2-478
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Target Details	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.
Reconstitution	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.
Shelf Life	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.