



# Recombinant Human ATP-dependent 6-phosphofructokinase, liver type (PFKL)

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| <b>Product Code</b>      | CSB-EP017821HU-B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Uniprot No.</b>       | P17858                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen Species</b> | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sequence</b>          | AAVDLEKLR ASGAGKAIGV LTSGGDAQGM NAAVRAVTRM GIYVGAKVFL<br>IYEGYEGLVE GGENIKQANW LSVSNIQLG GTIIGSARCK AFTTREGRRR<br>AAYNLVQHGI TNLCVIGGDG SLTGANIFRS EWGSLLEELV AEGKISSETTA<br>RTYSHLNIAG LVGSIDNDFC GTDMTIGTDS ALHRIMEVID AITTTAQSHQ<br>RTFVLEVMGR HCGYLALVSA LASGADWLF PEAPPEDGWE NFM CERLGET<br>RSRGSRLNII IIAEGAIDRN GKPISSSYVK DLVVQRLGFD TRVTVLGHVQ<br>RGGTPSAFDR ILSSKMGMEA VMALLEATPD TPACVVTLSG NQSVRLPLME<br>CVQMTKEVQK AMDDKRFDEA TQLRGGSFEN NWNIIYKLLAH QKPPKEKSNF<br>SLAILNVGAP AAGMNAAVRS AVRTGISHGH TVYVVDHGF GLAKGQVQEV<br>GWHDVAGWLG RGG SMLGTRK TLPKGQLESI VENIRIYGIH ALLVVGFEA<br>YEGVLQLVEA RGRYEELCIV MCVIPATISN NVP GTDFSLG SDTAVNAAME<br>SCDRIKQSAS GTKRRVFIVE TMGGYCGYLA TVTGIAVGAD AAYVFEDPFN<br>IHDLKVNVEH MTEKMKTDIQ RGLVLRNEKC HDYYTTEFLY NLYSSEGKGV<br>FDCRTNVLGH LQQGGAPTPF DRNYGTKLGV KAMLWLSEKL REVYRKGRVF<br>ANAPDSACVI GLKKKAVAFS PVTELKKDTD FEHRMPREQW WLSLRLMLKM<br>LAQYRISMAA YVSGELEHVT RRTLSMDKGF |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target Names</b>      | PFKL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Names</b>     | Recommended name: 6-phosphofructokinase, liver type EC=<br>2.7.1.11 Alternative name(s): Phosphofructo-1-kinase isozyme B Short name=<br>PFK-B Phosphofructokinase 1 Phosphohexokinase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Expression Region</b> | 2-780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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>Protein Length</b>    | Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Details</b>    | Phosphofructokinase (PFK) is a tetrameric enzyme that catalyzes a key step in glycolysis, namely the conversion of D-fructose 6-phosphate to D-fructose 1,6-bisphosphate. Separate genes encode a muscle subunit (M) and a liver subunit (L). PFK from muscle is a homotetramer of M subunits, PFK from liver is a homotetramer of L-subunits, while PFK from platelets can be composed of any tetrameric combination of M and L subunits. This protein represents the L                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



subunit. Alternate splicing results in two transcript variants, one of which is a candidate for nonsense-mediated decay (NMD).

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**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.

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**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.