



Recombinant Rat 6-phosphofructokinase, liver type (Pfk1)

Product Code	CSB-BP017821RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P30835
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	<p>ATVDLEKLR MSGAGKAIGV LTSGGDAQGM NAAVRAVTRM GIYVGAKVFL IYEGYEGLVE GGENIKPANW LSVSNIIQLG GTIIGSARCK AFTTREGRLA AAYNLLQHGI TNLCVIGGDG SLTGANIFRN EWGSLLEELV KEGKISESTA QNYAHL SIAG LVGSIDNDFC GTDMTIGTDS ALHRIMEVID AITTTAQSHQ RTFVLEVMGR HCGYLALVSA LASGADWLF I PEAPPEDGWE NFM CERLGET RSRGSRLNII IIAEGAIDRH GKPISSSYVK DLVVQRLGFD TRVTVLGHVQ RGGTPSAFDR VLSSKMGMEA VMALLEATPD TPACVVSLSG NQSVRLPLME CVQVTKDVQK AMDEKRFDEA IQLRGRSFEN NWKIYKLLAH QKVSKEKSNF SLAILNVGAP AAGMNAAVRS AVRTGISEGH TVYVVHDGFE GLAKGQVQEV GWHDVAGWLG RGGSM LGTKR TLPKPHLEAI VENLR TYNIH ALLVIGGFEA YEGVLQLVEA RGRYEELCIV MCVIPATISN NVPGTDFSLG SDTAVNAAME SCDRIKQSAS GTKRRVFIVE TMGGYCGYLA TVTGI AVGAD AAYVFEDPFN IHD LKANVEH MTEKMKTDIQ RGLVLRNEKC HEHYTTEFLY NLYSSEGRGV FDCRTNVLGH LQQGGAPTPF DRNYGTKLGV KAMLWMSEKL RDVYRKGRVF ANAPDSACVI GLRKKVVAFS SVTELK KETD FEHRMPREQW WLNLR LMLKM LAHYRISMAD YVSGELEHVT RRTLSIDKGF</p>
Source	Baculovirus
Target Names	Pfk1
Protein Names	<p>Recommended name: 6-phosphofructokinase, liver type EC= 2.7.1.11 Alternative name(s): Phosphofructo-1-kinase isozyme B Short name= PFK-B Phosphofructokinase 1 Phosphohexokinase</p>
Expression Region	2-780
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.
Protein Length	Full Length of Mature Protein
Target Details	<p>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</p>



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

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.