

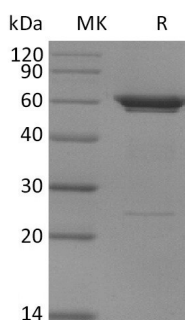
Product Name: Recombinant Human PFKFB3 (N-6His)
Catalog #: PEH2228



Summary

Name	PFKFB3
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3 is produced by our E.coli expression system and the target gene encoding Met1-His520 is expressed with a 6His tag at the N-terminus.
Accession #	Q16875
Host	E.coli
Species	Human
Predicted Molecular Mass	61.8 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 50mM KCl, 5mM DTT, 0.1mM EDTA, 50% glycerol, 0.1% TritonX-100, pH 6.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	IPFK2; PFK2; iPFK-2; PFK/FBPase 3
Background	Fructose-2,6-biphosphatase 3, also known as 6-phosphofructo-2-kinase or PFK2 or PFKFB3, involved in both the synthesis and degradation of fructose-2,6-

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bisphosphate, a regulatory molecule that controls the activity of the enzymes phosphofructokinase 1 (PFK-1) and fructose 1,6-bisphosphatase (FBPase-1) to regulate glycolysis and gluconeogenesis. Highly phosphorylated PFKFB3 protein was found in human tumor cells, vascular endothelial cells, and smooth muscle cells. Because of its proto-oncogenic character, the PFK-2/FBPase-2 of the PFKFB3 gene is assumed to play a critical role in tumorigenesis. PFKFB3 also plays a crucial role in the progression of cancerous cells by enabling their glycolytic pathways even under severe hypoxic conditions, which makes it a potential target for cancer therapy.

Note

For Research Use Only , Not for Diagnostic Use.