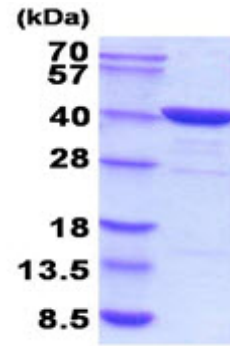


**AR51989PU-N****Human FBP1 (1-338, His-tag) - Purified**

<b>Alternate names:</b>	6-bisphosphatase 1, 6-bisphosphate 1-phosphohydrolase 1, D-fructose-1, FBP, FB Pase 1, Fructose-1
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (determined by bradford assay)
<b>Background:</b>	Fructose-1,6-bisphosphatase 1(FBP1) is a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis. Recombint FBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventiol chromatography techniques.
<b>Uniprot ID:</b>	<a href="#">P09467</a>
<b>NCBI:</b>	<a href="#">NP_000498.2</a>
<b>GeneID:</b>	<a href="#">2203</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
<b>Description:</b>	<b>AA Sequence:</b> MGSSHHHHHH SGLVPRGSH MADQAPFDTD VNTLTRFVME EGRKARGTGE LTQLLNSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND LVMNMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVC FDP LDGSSNIDCL VSVG TIFGIY RKKSTDEPSE KDALQPGRNL VAAGYALYGS ATMLVLAMDC GVNCFMLDPA IGEFILVDKD VKIKKKGKIY SLNEG YARDF DPAVTEYIQR KKFPPDNSAP YGARYVGS MV ADVHRTL VYG GIFLYPANKK SPNGKLRLLY ECNPMAYVME KAGGMATTGK EAVLDVIPTD IHQRAPVILG SPDDVLEFLK VYEKHS AQ <b>Specific Activity:</b> Specific activity is > 7,000 pmol/min/ug obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will oxidize 1.0 pmole of fructose 1,6 diphosphate to fructose 6-phosphate and inorganic phosphate per minute at pH 9.5 at 37C. <b>Molecular weight:</b> 39.0 kDa (358aa), confirmed by MALDI-TOF
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Rabenhorst U., et al. (2009) Hepatology. 50(4):1121-9. Hirota K., et al. (2008) Nature. 456(7218):130-4.

Pictures:



15% SDS-PAGE (3ug)