

FBP1 Human

Description: The FBP1 Human recombinant protein is a single, non-glycosylated polypeptide chain produced in E. coli, having a molecular weight of 39kDa and containing 358 amino acids (1-338 a.a.). The FBP1 enzyme is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatography techniques.

Catalog #: ENPS-461

For research use only.

Synonyms: FBP1, FBP, D-fructose-1,6-bisphosphate 1-phosphohydrolase 1, FB Pase 1, Fructose-1,6-bisphosphatase 1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MADQAPFDTD VNTLTRFVME
EGRKARGTGE LTQLLSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND
LVNMMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVC FDP LDGSSNIDCL VSVGTFIGIY
RKKSTDEPSE KDALQPGRNL VAAGYALYGS ATMLVLAMDC GVNCFMLDPA IGEFILVDKD
VKIKKKGKIY SL

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The FBP1 protein solution is formulated in 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

FBP1 is a gluconeogenesis regulatory protein which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBP1 deficiency is associated with hypoglycemia and metabolic acidosis. FBP1 regulates mouse endogenous glucose production. FBP1 coupled with phosphofructokinase (PFK) takes part in the metabolism of pancreatic islet cells.

Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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