

32-7121: Recombinant Human Fructose-1,6-Bisphosphatase 1/FBPase 1 (E. coli, C-6His)

Gene : FBP1
Gene ID : 2203
Uniprot ID : P09467

Description

Source: E.coli.
MW :37.89kD.

Recombinant Human FBPase 1 is produced by our E.coli expression system and the target gene encoding Ala2-Gln338 is expressed with a 6His tag at the C-terminus. Fructose-1,6-Bisphosphatase 1 (FBPase 1) is a member of the FBPase class 1 family. FBPase 1 is a gluconeogenesis regulatory protein, which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBPase 1 can assume an active R-state, or an inactive T-state. FBPase 1 deficiency is inherited as an autosomal recessive disorder mainly in the liver and causes life-threatening episodes of hypoglycemia and metabolic acidosis in newborn infants or young children. FBPase 1 coupled with phosphofructokinase (PFK) is involved in the metabolism of pancreatic islet cells.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 200mM NaCl, 1mM DTT, 1mM EDTA, 20% Glycerol, pH 8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : ADQAPFDTDVNTLTRFVMEEGRKARGTGELTQLLNSLCTAVKAISSAVRKAGIAHLYGIAGSTNVTGDQVKKLD
VLSNDLVMNMLKSSFATCVLVSEEDKHAIIVEPEKRGKYVVCFDPLDGSSNIDCLVSVGTIFGIYRKKSTDEPSEK
DALQPGRNLVAAGYALYGSATMLVLAMDGCVNCFMLDPAIGEFILVDKDVKIKKKGKIYSLNEGYARDFDPAVT
EYIQRKKFPPDNSAPYGARYVGSVMADVHRTLVIYGGIFLYPANKKSPNGKLRLLLYECNPMAYVMEKAGGMATT
GKEAVLDVIPTDIHQRAPVILGSPDDVLEFLKVYEKHSQAQVEHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.