Product Data Sheet

Product Name:	FBP1 Human, Active
Cat. No.:	GP26150
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Fructose-1,6-bisphosphatase 1, FBPase 1, D-fructose-1,6-bisphosphate 1-phosphohydrolase 1, Liver FBPase, FBP1, FBP.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MADQAPFDTD VNTLTRFVME EGRKARGTGE LTQLLNSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND LVMNMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVCFDP LDGSSNIDCL VSVGTIFGIY RKKSTDEPSE KDALQPGRNL VAAGYALYGS ATMLVLAMDC GVNCFMLDPA IGEFILVDKD VKIKKKGKIY SLNEGYARDF DPAVTEYIQR KKFPPDNSAP YGARYVGSMV ADVHRTLVYG GIFLYPANKK SPNGKLRLLY ECNPMAYVME KAGGMATTGK EAVLDVIPTD IHQRAPVILG SPDDVLEFLK VYEKHSAQ		
Formulation	FBP1 protein solution (1mg/ml) contains 1mM DTT, 10% glycerol and 20mM Tris-HCl buffer (pH 8.0).		

Introduction

FBP1 or Fructose-1, 6-bisphosphatase 1 is an enzyme, catalyzing the formation of fructose 6-phosphate & inorganic phosphate from fructose 1, 6-bisphosphate. FBP1 is part of the gluconeogenesis regulatory enzymes. Mutations in the enzyme gene can result in metabolic acidosis & hypoglycemia.

Biological Activity

Specific activity is > 7,000pmol/min/ug, and is determined by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. 1 unit oxidizes 1.0pmole of fructose 1,6 diphosphate to fructose 6- phosphate and inorganic phosphate per minute at pH 9.5 at 37?C.

Stability

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

FBP1 Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 358 amino acids (1-338) and having a molecular mass of 39.0 kDa.FBP1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA