Recombinant Human FBPase 1/FBP1 Protein (Human Cells, His Tag)

Catalog Number:PKSH033277

Note: Centrifuge before opening to ensure complete recovery of vial contents.

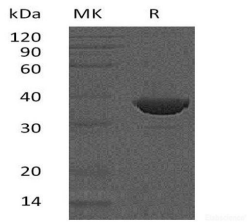
Description

Synonyms	Fructose-1;6-bisphosphatase 1;D-fructose-1;6-bisphosphate 1-phosphohydrolase 1;FBP;FBPase 1
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala2-Gln338
Accession	P09467
Calculated Molecular Weight	37.8 kDa
Observed molecular weight	35-38 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 200mM NaCl, 1mM DTT, 1mMEDTA, 10% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fructose-1;6-bisphosphatase 1(FBP1) is a homotetramer protein and belongs to the FBPase class 1 family. It involves in carbohydrate biosynthesis; gluconeogenesis pathway. 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.

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