

## fbaA Protein, Shigella flexneri

Cat. No.:	HY-P701883
Synonyms:	fbaA; Fructose-bisphosphate aldolase class 2; FBP aldolase; FBPA; Fructose-1; 6-bisphosphate aldolase; Fructose-bisphosphate aldolase class II
Species:	Others
Source:	E. coli
Accession:	P0AB73 (M1-L359)
Gene ID:	1025905
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The fbaA protein is an enzyme that catalyzes the crucial aldol condensation reaction in both gluconeogenesis and glycolysis. Specifically, it facilitates the condensation of dihydroxyacetone phosphate (DHAP or glycero-phosphate) with glyceraldehyde 3-phosphate (G3P), leading to the formation of fructose 1,6-bisphosphate (FBP). This reversible reaction is central to the interconversion of metabolites between glycolysis and gluconeogenesis, playing a pivotal role in cellular energy metabolism. The fbaA enzyme's ability to regulate the conversion of key phosphorylated intermediates highlights its significance in maintaining the balance of glucose production and utilization within the cell. It has to emphasize fbaA's role in this essential biochemical pathway, underlining its importance in cellular energy homeostasis.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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