

Recombinant Human Aldolase B Fructose-Bisphosphate

(Human ALDOB)

Certificate of Analysis and Data Sheet

Catalogue Number	ENZ-245
Synonyms	Fructose-bisphosphate aldolase B, Liver-type aldolase, ALDOB, ALDB, Aldolase B fructose-bisphosphate, ALDO2, aldolase 2, Aldolase B fructose-bisphosphatase. ALDOB is a tetrameric glycolytic enzyme which catalyzes the reversible cleavage of fructose 1-phosphate into dihydroxyacetone phosphate and glyceraldehyde.
Introduction	Fructose-bisphosphate aldolase B (ALDOB) is one of 3 known aldolase isoenzymes, and is located in the kidney and the small adult intestine where it is linked with aldolases A or C. ALDOB is regulated by Insulin and glucagon and is implicated in hereditary fructose intolerance disease.
Description	ALDOB Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 388 amino acids (1-364) and having a molecular mass of 42kDa. ALDOB is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Source	Escherichia Coli.
Physical Appearance	Sterile Filtered clear colorless solution.
Formulation	The ALDOB solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.
Stability	For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino acid sequence	<u>MGSSHHHHH SSGLVPRGSH MGSMAHRFP ALTQEQKEL</u> SEIAQSIVAN GKGILAADES VGTMGNRLQR IKVENTEENR RQFREILFSV DSSINQSIGG VILFHETLYQ KDSQGKLFNRN ILKEKGIVVG IKLDQGGAPL AGTNKETTIQ GLDGLSERCA QYKKGVDVDFG KWRAVLRIAD QCPSSLAIQE NANALARYAS ICQQNGLVPI VEPEVIPDGD HDLEHCQYVT EKVLAAYVYKA LNDHHVYLEG TLLKPNMVTA GHACTKKYTP EQVAMATVTA LHRTVPAAVP GICFLSGGMS EEDATLNLNA INLCPLPKPW KLSFSYGRAL QASALAAWGG KAAKEATQE AFMKRAMANC QAAKGQYVHT GSSGAASTQS LFTACYTY.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Usage	ProSpec'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.
Related Products	» ALDOA Human » ALDOC Human