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## Product Data Sheet

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Product Name: ALDOC Human, Active

Cat. No.: GP21396

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aldolase; Fructose-Bisphosphate C; Aldolase C; Fructose-Bisphosphate; Brain-Type Aldolase; EC 4.1.2.13; ALDC; Fructose-1;6-Biphosphate Triosephosphate Lyase; Fructose-Bisphosphate Aldolase C; Fructoaldolase C; Aldolase 3; ALDOC .		
Amino Acid Sequence	MPHSYPALSA EQKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGIVVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLK PNMVTPGHAC PIKYTPEEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA SFNLNAINRC PLPRPWALTF SYGRALQASA LNAWRGQRDN AGAATEEFIK RAEVNGLAAQ GKYEGSGEDG GAAAQSLYIA NHAY		
Formulation	The ALDOC solution (1mg/ml) contains 20% glycerol, 20mM Tris-HCl buffer (pH 8.0) , 2mM DTT & 0.1M NaCl.		

**Introduction**

Aldolase C Fructose-Bisphosphate (ALDOC) belongs to the class I fructose-bisphosphate aldolase family. ALDOC is a glycolytic enzyme which catalyzes the reversible aldol cleavage of fructose-1,6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehydes respectively. ALDOC is expressed exclusively in the hippocampus and Purkinje cells of the brain.

**Biological Activity**

Specific activity is > 6 units/mg, one unit will convert 1.0 umol of fructose 1,6-diphosphate to dihydroxyacetone phosphate and glyceraldehydes 3- phosphate per

**Caution: Product has not been fully validated for medical applications. For research use only.**

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minute at pH 7.5 at 37C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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

ALDOC Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 364 amino acids (1-364 a.a.) and having a molecular mass of 39.4kDa. The ALDOC is purified by proprietary chromatographic techniques.

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