
Product Data Sheet

Product Name: ALDOC Human
 Cat. No.: GP21394
 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 AldolaseC; Fructoaldolase C; Aldolase 3.		
Amino Acid Sequence	MPHSYPALSA EQKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVENTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTDGETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPEILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLK PNMVTPGHAC PIKYTPEEIA MATVTALRRTVPPAVPGVTF LSGGQSEEEA SFNLNAINRC PLPRPWALTF SYGRALQASA LNAWRGQRDN AGAATEEFIKRAEVNGLAAQ GKYEGSGEDG GAAAQSLYIA NHAY.		
Formulation	ALDOC protein solution (1mg/ml) containing 20mM Tris-HclBuffer (pH 8.0), 20% glycerol, 2mM DTT and 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.

Stability

Store at 4°C if entire vial will be used within 2-4weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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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.

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