
Product Data Sheet

Product Name: ALDOC Mouse
 Cat. No.: GP21397
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aldolase 3; Brain-type aldolase; Scrapie-responsive protein 2; Zebrin II; Aldo3; Scrg2; Fructose-bisphosphate aldolase C; ALDOC.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHPHSYP ALSAEQKKEL SDIALRIVTP GKGILAADES VGSMARKLSQ IGVNTEENR RLYRQVLFSA DDRVKKCIGG VIFFHETLYQ KDDNGVPFVR TIQDKGILVG IKVDKGVVPL AGTDGETTTQ GLDGLLERCA QYKKDGADFA KWRCVLKISD RTPSALAILE NANVLARYAS ICQQNGIVPI VEPEILPDGD HDLKRCQYVT EKVLAAVYKA LSDHHVYLEG TLLKPNMVTP GHACPIKYSY EEIAMATVTA LRRTVPPAVP GVTFLSGGQS EEEASLNLNA INRCPLRPW ALTFYGRAL QASALNAWRG QRDNAGAATE EFIKRAEMNG LAAQGRYEGS GDGGAAAQSL YIANHAY		
Formulation	The ALDOC solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

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-bisphosphate 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 2-4 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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ALDOC Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 387 amino acids (1-363 a.a) and having a molecular mass of 41.9kDa. ALDOC is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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