
Product Data Sheet

Product Name: ALDOA Human

Cat. No.: GP21392

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Fructose-bisphosphate aldolase A; Muscle-type aldolase; Lung cancer antigen NY-LU-1; ALDOA; ALDA; EC 4.1.2.13; GSD12; MGC10942; MGC17716; MGC17767; Aldolase-A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPYQYPALTP EQKELSDIA HRIVAPGKGI LADESTGSI AKRLQSIGTE NTEENRRFYR QLLLTADDRV NPCIGGVILF HETLYQKADD GRPFPQVIKS KGGVVGIVKVD KGVVPLAGTN GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKIGEHTPS ALAIMENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HIYLEGTLK PNMVTPGHAC TQKFSHEEIA MATVTALRRT VPPAVTGITF LSGGQSEEEA SINLNAINKC PLLKPWALTF SYGRALQASA LKAWGGKKEN LKAAQEEYVK RALANSLACQ GKYTPSGQAG AAASESLFVS NHAY.		
Formulation	The ALDOA solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.		

Introduction

Aldolase A (ALDOA) is a glycolytic enzyme, which catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. ALDOA is found in the developing embryo and is produced in even greater amounts in adult muscle. ALDOA expression is repressed in the adult liver, kidney and intestine and similar to ALDOC levels in the brain and other nervous tissue. ALDOA deficiency has been linked with myopathy and hemolytic anemia.

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%

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

ALDOA Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 384 amino acids (1-364 a.a.) and having a molecular mass of 41.5 kDa. The ALDOA is purified by proprietary chromatographic techniques.

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