

32-6662: ALDOC Human, Active

Application : Functional Assay

Aldolase, Fructose-Bisphosphate C, Aldolase C, Fructose-Bisphosphate, Brain-Type Aldolase, EC

Alternative Name : 4.1.2.13, ALDC, Fructose-1,6-Biphosphate Triosephosphate Lyase, Fructose-Bisphosphate Aldolase C, Fructoaldolase C, Aldolase 3, ALDOC .

Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

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.

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.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : The ALDOC solution (1mg/ml) contains 20% glycerol, 20mM Tris-HCl buffer (pH 8.0) , 2mM DTT & 0.1M NaCl.

Storage condition : 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.

Amino Acid : MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADSVGSM AKRLSQIGVE NTEENRRRLYR
QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGKVD KGVVPLAGTD
GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ
NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLK PNMVTPGHAC
PIKYTPPEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA SFNLNAINRC PLPRPWALTF
SYGRALQASA LNAWRGQRDN AGAATEEFIK RAEVNGLAAQ GKYEGSGEDG GAAAQSLYIA
NHAY

Application Note

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 minute at pH 7.5 at 37C.