

# Product information

## ALDOC, 1-364aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP3393

**Full name:** Fructose biphosphate aldolase C

**NCBI Accession No.:** NP\_005156

**Synonyms:** ALDC

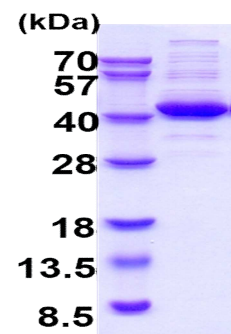
**Description:** ALDOC, also as known as fructose biphosphate C, is a member of the class 1 fructose-biphosphate aldolase family. This protein is a ubiquitous enzyme that catalyzes the reversible aldol cleavage of fructose-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehyde, respectively. It is expressed specifically in the hippocampus and Purkinje cells of the brain. Recombinant human ALDOC was expressed in *E.coli* and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl

**Molecular Weight:** 39.4kDa (364aa) confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 1mg/ml (determined by Bradford)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN  
 GVPFVRTIQD KGI VVG I KVD 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

### General references:

Rolland T. et al., (2014) *Cell*. 159(5):1212-26.

Caspi M. et al., (2014) *Mol Cancer*. 13:164.

Arakaki TL. et al., (2004) *Protein Sci*. 13(12): 3077-84

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**