

Bioactive

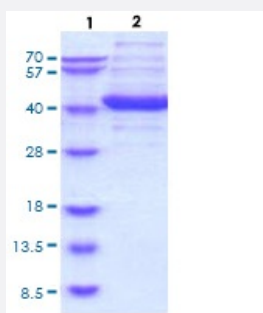
Full-Length

ALDOC (Human) Recombinant Protein

Catalog # P8034

Size 20 ug

Applications



Specification

Product Description

Human ALDOC (P09972, 1 a.a. - 364 a.a.) full length recombinant protein expressed in *Escherichia coli*.

Sequence

MPHSPALSAEQKKELSDIALRVAPGKGILAADESVGSMARLSQIGVENTEENRRLYRQVLFSAD
 DRVKKCIGGVIFHETLYQKDDNGVPFVRTIQDKGMVGKVDKGVVPLAGTDGETTTQGLDGLS
 ERCAQYKKGADFAKWRCVLKISERTPSALAIENANVLARYASICQNGIVPVEPEILPDGDHDL
 KRCQYVTEKVLAAYKALSDHHVYLEGTLKPNMVTTPGHACPIKYTPEEIAMATVTALRRTVPPAV
 PGVTFLSGGQSEEEASFNLNAINRCPLRPWALTFSYGRALQASALNAWRGQRDNAGAATEEFI
 KRAEVNGLAAQKGKYEKSGEDGGAAAQSLYANHAY

Host

Escherichia coli

Theoretical MW (kDa)

39.4

Form

Liquid

Preparation Method

Escherichia coli expression system

Purity

> 90% by SDS-PAGE

Activity

Specific activity is > 6 unit/mg, in which one unit will convert 1.0 umol of fructose 1,6-diphosphate to d
 ihydroxyacetone phosphate and glyceraldehydes 3- phosphate per minute at pH 7.5 at 37°C.

Quality Control Testing

3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

Storage Buffer

In 20mM Tris-HCl pH 8.0 (20% glycerol, 0.1 M NaCl, 2 mM DTT)

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ALDOC

Entrez GeneID[230](#)**Protein Accession#**[P09972](#)**Gene Name**

ALDOC

Gene Alias

ALDC

Gene Description

aldolase C, fructose-bisphosphate

Omim ID[103870](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the class I fructose-biphosphate aldolase gene family. Expressed specifically in the hippocampus and Purkinje cells of the brain, the encoded protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1,6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehyde, respectively. [provided by RefSeq]

Other Designations

OTTHUMP00000163437|aldolase 3|brain-type aldolase|fructoaldolase C|fructose-1,6-biphosphate triosephosphate lyase|fructose-bisphosphate aldolase C

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Fructose and mannose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pentose phosphate pathway](#)