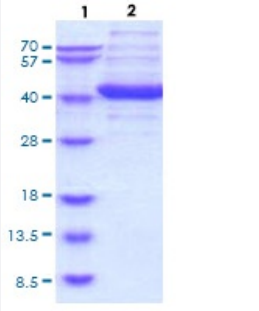
Bioactive Full-Length

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	MPHSYPALSAEQKKELSDIALRIVAPGKGILAADESVGSMAKRLSQIGVENTEENRRLYRQVLFSA DDRVKKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGIVVGIKVDKGVVPLAGTDGETTTQGLDGLS ERCAQYKKDGADFAKWRCVLKISERTPSALAILENANVLARYASICQQNGIVPIVEPEILPDGDHDL KRCQYVTEKVLAAVYKALSDHHVYLEGTLLKPNMVTPGHACPIKYTPEEIAMATVTALRRTVPPAV PGVTFLSGGQSEEEASFNLNAINRCPLPRPWALTFSYGRALQASALNAWRGQRDNAGAATEEFI KRAEVNGLAAQGKYEGSGEDGGAAAQSLYIANHAY
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.

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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. Expresse d specifically in the hippocampus and Purkinje cells of the brain, the encoded protein is a glycolyti c 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 glyceraldeh yde, respectively. [provided by RefSeq
Other Designations	OTTHUMP00000163437|aldolase 3|brain-type aldolase|fructoaldolase C|fructose-1,6-biphosphat e 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

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- 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

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